THE CHEMIST AND DRUGGIST

Established 1859.

Chief Offices: 42 CANNON STREET, LONDON, E.C.
Branch Offices 231 ELIZABETH STREET, MELBOURNE, VICTORIA, and EMPIRE CHAMBERS, YORK STREET, SYDNEY, N.S.W.

A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10s. per year, payable in advance, including a copy of the Diary next published, and postage to any country in the world. Single copies, 4d. each. Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank (Limited)."

As an Official Journal

The Chemist and Druggist is supplied regularly to every member of the following Societies:—Pharmaceutical Society of Ireland, South African Pharmaceutical Association, Otago Pharmaceutical Association, Pharmaceutical Society of Queensland, Pharmaceutical Society of South Australia, Pharmaceutical Society of Western Australia, and Tasmanian Pharmaceutical Society.

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THE EDUCATIONAL NUMBER

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POST CARD COMPETITION.

August.

The best description (with or without drawings) of some advantageous tool, appliance, or fitting, for the dispensing counter. Preference given to something not generally known, but articles not to be disqualified if not absolutely new or original.

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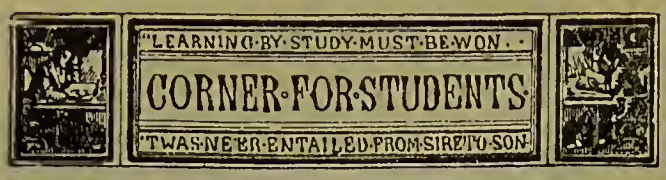

Conducted by Richard J. Moss, F.C.S., F.I.C.

Qualitative Analysis.

THE subject of the next exercise in qualitative analysis will be a mixture of not more than three salts. The mixture is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents.

Students' applications for portions of the mixture of salts (accompanied by *a stamped and addressed envelope*, not a stamp merely) will be received up to Wednesday, August 22, and the samples will be forwarded immediately. It should be understood that in this, as in all other competitions, The Chemist and Druggist recognises no distinction of sex.

Students' reports will be received up to Saturday, September 1. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts of which the mixture is composed.

Reports.

The mixture of salts submitted to our correspondents for analysis last month consisted of 2 parts of sodium chloride, 1 part of potassium iodide, and 1 part of ammonium bromide. Its calculated composition was:—

K	5·83
Na	19·99
NH_4	4·59
I	19·12
Br	20·41
Cl	30·01
	100·00

It contained traces of calcium and of the sulphuric radicle.

Samples of the mixture of salts were sent to fifty students, and twenty-six reports of the work done were received. The failures in the detection of the several constituents were: bromine 15, chlorine 4, potassium 3, sodium 3, ammonium 2, iodine 1.

It is interesting to note that there were four times as many failures in the detection of 30 per cent. of chlorine as there were in the detection of 19 per cent. of iodine. A still more striking fact is the large number of failures in the detection of bromine. There was more bromine than iodine in the mixture, yet more than half our correspondents were unable to detect the former, while only one omitted the latter. The very sensitive and characteristic reaction of iodine with starch is largely accountable for these results; there is no such characteristic reaction by which bromine may be identified.

About half of those who were successful in the detection of bromine relied chiefly upon the method of separation depending upon the displacement of bromine and iodine by chlorine. There are several ways in which this method may be applied, but unless the student has previously ascertained by actual trial on a solution containing an iodide and a bromide, he has very little chance of succeeding with an unknown substance. For particulars of the method to be followed we must refer our correspondents to the standard text-books. A very good method, not referred to in most of the text-books, consists in the expulsion of the iodine by boiling the solution with ferric chloride. The iodine is rapidly evolved, and passes over with the aqueous vapour; when it is found that the vapour no longer contains iodine the solution is cooled and shaken up with chloroform or carbon bisulphide after the addition of chlorine-water. The presence of bromine is revealed by the orange-red coloration of the chloroform or carbon bisulphide.

Prizes.

The First Prize for the best analysis has been awarded to Herbert Bridges, c/o Messrs. Nuthall & Mason, Bank Plain, Norwich.

The Second Prize has been awarded to Charles A. Critchley, 10 King William Street, Blackburn.

Marks Awarded for Analyses.

Herbert Bridges (1st prize)	100	Victory	81
C. A. Critchley (2nd prize)	93	Hopeful	80
Progrediens	96	R. G. J.	78
W. Hood	95	James Ford	75
Zymine	93	Veritas	72
Cambria	93	Bête Noire	70
Harold Read	91	A. W. Latham	65
Cosmo	91	L. Pool	65
Spes	90	Hopeful Secundus	60
A. W. N.	90	Danwer	60
Crystal	87	C. Huxtable	50
·001	85	Hatfield	35
Rubruff	83	F. L. Hewitt	15

To Correspondents.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Publisher, naming the book they select, and stating how they wish it forwarded.

Any scientific book that is published at a price not greatly exceeding half a guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as second prize.

Note.—All communications should include the names and addresses of the writers.

Progrediens.—You gave sufficient proof of the presence of the three halogens, but in your description of the method of separation followed you state that you obtained a precipitate of silver chloride by adding silver nitrate to a solution to which you had previously added hydrochloric acid. The demonstration of the presence of chlorine in this solution was scarcely necessary.

Crystal.—The method you followed for the detection of the halogens—viz., the precipitation of the iodine as cuprous iodide and the examination of the filtrate for bromine and chlorine—was successful in the hands of several other students. A solution of sulphurous acid may with advantage be substituted for the ferrous sulphate, as it is a more active reducing-agent. In the examination of the filtrate the chlorine-water should be added cautiously in small quantities, carefully noting the effect of each addition.

·001.—Your *nom de plume* cannot be said to be a vulgar one. Chlorine-water is better suited for the liberation of iodine in the presence of starch-paste. The operation should be conducted in the cold, or the iodised starch will be decolorised.

Rubruff.—You made no attempt to detect bromine.

Victory.—Considering that you had found there were no metals present except potassium and sodium it was waste of time to boil the salts with an alkaline carbonate preparatory to examining for the acids. The possibility of a bromide being present does not seem to have occurred to you.

Hopeful.—Though you separated the iodine by precipitation as cuprous iodide you made no attempt to detect the bromine which was associated with the iodine in the filtrate.

R. G. J.—See remarks to "Crystal." The coloured ring you observed at the juncture of the sulphuric acid with the solution was due to iodine.

James Ford.—You evaporated a solution to dryness—you do not say what solution—and obtained a large residue, which you concluded was a sodium compound, because it coloured the flame yellow. About one-third of this residue consisted of a potassium salt; a much smaller proportion of sodium would still obscure the potassium coloration.

Veritas.—If you had tried the experiment you would have found that a large part of the silver precipitate dissolved in dilute ammonia, yielding a solution which gave a white precipitate with nitric acid.

Bête Noire.—The quantity of residue obtained on evaporation and ignition, the intense yellow coloration of the flame, and the relatively small precipitate of potassio-platinic chloride all pointed to the presence of sodium in quantity.

A. W. Latham.—Ferric chloride liberates iodine from solutions of iodides; this was the cause of the coloration you attributed to a sulphocyanide.

L. Pool.—See remarks to "Bête Noire." The change of colour observed on heating ought not to have been mistaken for charring. Your alleged detection of aluminium was mere conjecture, unsupported by any evidence.

Hopeful Secundus.—Heating with sulphuric acid and manganese dioxide liberated the three halogens, but it afforded no means of distinguishing them. You should have tried to isolate and identify both the chlorine and the bromine.

Danwer.—That a considerable portion of the silver precipitate was readily soluble in dilute ammonia, and in ammonium carbonate, was easily ascertained. The chloride you obtained after the supposed reduction of chlorate was in reality the chloride originally present.

C. Huxtable.—The residue you obtained on evaporating the ammonium-carbonate filtrate must have represented a very small amount of the original solution. You will see from the figures given above that sodium and potassium in the metallic form constituted just one-quarter of the mixture. In the form of salts the alkali metals gave quite a bulky residue.

Hatfield.—You did not take nearly enough trouble with the analysis; a great deal of painstaking work is necessary in order to arrive at correct results.

T. L. Hewitt.—You can scarcely call the account of a few tests which you sent in the report of an analysis. Remember that you are not merely to show that certain substances are present; you must prove others absent.

English News.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

The Chemist and the Guardians.

At a meeting of the Yarmouth Board of Guardians, on August 3, a discussion took place upon a bill for about 20*l.* from Mr. S. E. Richmond, chemist, for drugs supplied. The bill had been previously referred back to him, and had been reduced by about 1*l.* It was remarked during discussion that local tradesmen did not treat the Board in a proper manner, and charged them full retail prices. The Guardians did not appreciate this, and if tradesmen had made up their minds to this course they must not complain if the Board passed them over and went to the wholesale firms, a thing they would be sorry to do. Eventually it was decided to pay Mr. Richmond's bill.

Trade Trips.

Messrs. Reynolds & Branson's employés held their annual trip on Monday, August 6, to Bolton Woods. Conveyances left 13 Briggate at 8 A.M. Dinner and tea were provided at the Malt Shovel Hotel, Burley-in-Wharfedale. The usual toasts were honoured, the party reaching Leeds again at 11.30 P.M.

The employés of Messrs. Taylors, druggists, of Leeds, had their annual trip on August 7. The party, numbering over 180, made an excursion to Leyburn, where music and various amusements were provided, and a very pleasant day was spent.

Robbing a Chemist.

Henry Hale (36), a scene-shifter, was charged at the Mansion House, on August 9, with stealing half-a-guinea from Mr. F. Morre, chemist and druggist, of Crutched Friars. Prosecutor on the previous night was going home, when he was followed by prisoner, who asked for some tobacco, and on being told that he had none immediately seized him. Prosecutor managed to get away, but prisoner snatched a half-guinea piece from his watch-chain. Accused was sentenced to one month's hard labour.

Burglary at a Chemist's.

At the Halifax Borough Court, on August 8, John Wright was charged with breaking into the shop of Mr. Brierley, chemist, of Boothtown Road, on August 6. The premises were entered through a window, and a quantity of copper coins and brass checks stolen. Prisoner was arrested through trying to sell some of the checks to a detective. The accused was remanded.

Robbery of Eucalyptus Oil.

George Smith, labourer, and Alfred Rose, dealer, of Stepney, were charged at the Thames Police Court, on August 8, with stealing twelve cases of eucalyptus oil from 37 Commercial Road, the property of J. W. Drysdale, chemist and druggist. The theft was reported in The Chemist and Druggist of July 28, page 98. Evidence was given of the arrest of the prisoners, and Mr. H. Straker, colonial dealer, stated that he had sold six cans to Mr. Jeune for the prisoners. The prosecutor's clerk identified the oil at Mr. Jeune's, and prisoners were remanded.

Another Fatal Mistake by a Nurse.

Ellen Radcliffe (63), inmate of the Oldham Workhouse Infirmary, was accidentally poisoned on Thursday, August 9. Deceased, who suffered from heart-disease, was allowed to have a little whisky now and then, and a bottle was kept in a cupboard among the medicines. During the previous night the nurse in charge went to the cupboard to get some whisky for deceased, and in mistake got hold of a bottle containing solution of atropine, which she gave to the old woman with fatal effects.

Robbing Messrs. Burroughs & Wellcome.

At the Dartford Police Court last week, Frederick Wright was charged on remand with stealing tabloids, menthol plasters, &c., value 1*l.* 15*s.*, the property of his employers, Messrs. Burroughs, Wellcome & Co., Phœnix Mills, Dartford, under circumstances reported last week. In reply to the prisoner, Mr. A. Searl, F.C.S., manager to the firm, said that quinine tabloids were given away during the influenza epidemic, but he did not recognise any quinine tabloids among the articles found at the prisoner's house. The prisoner pleaded guilty, and Mr. Searl asked the Bench to deal with him leniently, as the loss of his place and disgrace that had fallen upon him were severe punishment. The Bench bound the prisoner under the First Offenders Act to come up for judgment if called upon.

Embezzlement by a Chemist's Assistant.

A respectably-dressed young man, named William Henry Parsons, aged 18 years, was, at the Cardiff Police Court on Saturday, charged with embezzling 7*s.* 9*d.* on August 10, the money of Messrs. Hicks & Co. (Limited), wholesale druggists, Queen Street. The case was proved by Mr. Bennett, secretary of the company. Prisoner was employed as clerk, at a salary of 1*l.* per week, and it was his duty to keep the daybook and make out the invoices, and to enter all moneys he received in the petty-cash book. On Thursday afternoon he received 7*s.* 9*d.* for goods supplied, but no entry of the sum appeared in the cashbook, nor was any account rendered in any other way. Prisoner, in defence, said he put the money in his pocket whilst attending to a railway man, not having time to go to the till, and afterwards forgot all about it. The Bench, however, believed him guilty, but, in response to an appeal for leniency made by Mr. Hicks, they dealt with the case under the First Offenders Act, the prisoner being bound over in a security of 10*l.* to be on his good behaviour for twelve months.

Suicide of a Chemist.

An inquest was held at Northampton on August 11, concerning the death of John Henry Negus, pharmaceutical chemist, of that town. The evidence showed that the deceased had been in very low spirits and in a feeble state of health for some time, and was of late given to worry over trivial affairs. A bottle containing prussic acid was found in his pocket, and medical evidence showed death to be due to the effects of this poison. The jury returned a verdict of suicide whilst temporarily insane.

The Half-holiday.

The chemists and druggists of Gravesend (Kent) have decided, in conjunction with the other tradesmen of the town, to close their business-establishments each Wednesday at 2 o'clock. The concession commenced on August 15.

Some Poisoning Mistakes.

On August 5 a two-year-old child, son of Mr. Tasker, of Carnarvon, got hold of a bottle of lotion containing belladonna and drank some of it, becoming unconscious speedily. Thanks to prompt medical help the child recovered.

Ann Alice Barker, of Halifax, was accidentally poisoned on Angnst 4 by drinking vitriol. The deceased went to a cupboard to get some bitters, according to her custom, and in mistake took hold of the wrong bottle. At the inquest the jury returned a verdict of death by misadventure.

A woman named Ellen Mills, of Exeter, took some ammonia by mistake on August 8. She had two bottles in a cupboard, one containing salts and the other liquid ammonia, and she took the latter in mistake. Prompt attention was given at the hospital and the woman recovered, though she suffered severely from the effects of the draught.

Mr. W. D. Hopkins, schoolmaster, of Coven, had a narrow escape from poisoning on Augnst 3. Not being well he had been taking some medicine, and on this occasion the wrong bottle was given him. It contained liquid ammonia, from which he drank. Medical aid was summoned, and he speedily recovered.

An inquest was held at Burnham on August 7, relative to the death of Mrs. Edith Oliver, who died by poisoning on August 3. Evidence showed that deceased was usually of a very cheerfnl disposition, but suffered much from neuralgia, and was accustomed to inhale chloroform for relief. Mr. F. E. Carpenter, chemist, said he had sold deceased 2 oz. of chloroform shortly before. The Coroner said that evidence pointed to the fact that Mrs. Oliver had probably inhaled too much chloroform, and, becoming stupefied, a quantity of it had run from the bottle on to her person, especially since her cheek was blistered. The jury returned a verdict that death ensned from an accidental use of chloroform taken as a palliative.

Charles Brown, of Walsall, on August 12, drank some liniment which had been supplied by a veterinary surgeon for a horse. Prompt treatment by a local physician saved his life, though he has suffered severely from the effects of the poison.

Carbolic Poisonings.

Robert Jarvis, brickmaker, of Southwark, committed suicide by drinking carbolic acid. He had snffered for some time from bad health. At the inquest, on August 13, the jury returned a verdict of suicide whilst of unsound mind.

James Bromelow (30), bottle-maker, of St. Helens, committed suicide, on August 11, by taking carbolic acid. Deceased, who had been in the employ of Messrs. Cannington, Shaw & Co., had, with others, been discharged owing to depressed trade, and for some weeks he had been unable to obtain regular employment.

Sarah Turner (49), of Chesterfield, committed suicide on August 11, by taking carbolic acid, which she had purchased of a local chemist. She was a woman of intemperate habits, and was drnnk at the time the act was committed. At the inquest the jury returned a verdict of suicide whilst temporarily insane.

Emma Barton (55) died at the General Hospital, Birmingham, on August 11, from poisoning by carbolic acid. It is supposed to be a case of suicide.

The Privy Council and Carbolic Acid.

At an inquest at Bakewell on Angust 13, the Coroner referred to what had been said at a previous inquest respecting the scheduling of carbolic acid. He found that the proper authority was the Pharmaceutical Society, which had power to resolve that any compound which was a dangerous poison should be scheduled, subject to the approval of the Privy Council. The Secretary of that body had replied that they had three times over officially resolved that carbolic acid shonld be scheduled, but so far the Privy Council had not thonght fit to give their approval thereto. He (the Coroner) wrote to the Seoretary of the Privy Council, but had only had a bare acknowledgment of that letter.

Exciting Scene at a Fire.

A serious fire broke ont on the premises of Messrs. H. D. Rawlings (Limited), mineral-water mannfacturers, of Neate Street, Camberwell, early on Tuesday morning. It was discovered by the police, who at once sent for the Old Kent Road fire-engine. The stables, comprised in two long buildings, were situated at the rear of the factory, and efforts were at once made to get out the large number of horses kept there. The animals had already been restless, when several ostlers and coachmen, with Sergeants Wyatt, Jettan, and a number of constables went to their assistance. Three or four of the horses were first let ont of their stalls, and the work of letting loose the others was then proceeded with. So expeditiously was this carried out that in less than ten minutes 120 horses had been tnrned into Neate Street, having followed each other out in a long line. Finding themselves suddenly set at liberty, however, the horses stampeded down the road. Jnst then the manual fire-engine and escape turned into Neate Street. The large crowd of horses charged down on the engine, which was going at full speed, and the firemen experienced considerable difficulty in driving through their ranks to the scene of the fire. The approach of the horses had been seen at White's mineral-water mannfactory in the same thoroughfare, and a number of men tnrned them into the large yard, where they were all safely secnred. At 5.15 the building was well alight, the fire bursting through the roof. The flames, however, were confined to the building in which they originated.

Fly-papers as a Poison.

A newsagent named Burke, aged 35 years, living at 2 Park Street, Liverpool Road, N., attempted to commit suicide on Sunday by drinking a decoction which he had made from about two dozen fly-papers. He has been much depressed lately, through the death of his wife, and it is alleged he has several times threatened to take his life. He lies in a precarious condition at his home.

Drunk on Methylated Spirit.

Thomas Gny was found on the pavement in Dartmouth Park Hill in an insensible condition. In one of his hands was a bottle labelled "Poison." Constable 462 Y got him to his feet, and thinking he had attempted suicide, a doctor was sent for. Guy became violent, and kicked the officer. The doctor certified that he was diunk, and on a charge to that effect he appeared at West London Police Court on Angnst 14. Mr. Lane said the liquid in the bottle looked more like gin than poison. The constable replied that the bottle contained methylated spirit, and it was evident that the prisoner had got drunk on the spirit. Mr. Lane fined the man 3*s*.

Drug-contracts.

The Dartford Board of Guardians have accepted the tender of Mr. W. E. Goff, chemist and druggist, of High Street, Dartford, for the supply of disinfectants.

Chemists at Cricket.

On Satnrday, August 11, Messrs. Burgoyne, Bnrbidges & Co. played their return match with Messrs. Hearon, Squire & Francis, on the former's ground at Hyde Farm, Balham. The match resulted in a draw, greatly in favour of Burgoyne's, the scores being: B., B. & Co., 124; H., S. & F., 30 for eight wickets. The chief scorers for Burgoyne's were Moxon (40) and Newport (41).

Fly-papers and Alleged False Pretences.

At the Mansion House, on Wednesday, William Troutz (36), yard foreman; Emile Troutz (35), agent; George Charles Frühling (45), professor of languages; and Alexander Joseph (42), agent (on bail), were charged before Alderman Sir Stuart Knill with conspiring together to obtain and obtaining by false pretences from Messrs. Tunbridge & Wright, of Reading, 200 gross of patent fly-papers, worth 60*l*. 7*s*. 6*d*.; and from Messrs. Reid & Co., of Dunfermline, towels of the value of 43*l*. 6*s*. 3*d*., with intent to defraud. Mr. Humphreys, for the prosecution, said that some persons who described themselves as Messrs. Frank & Co. recently took a room in Fleet Street, and entered into correspondence with Messrs. Tunbridge & Wright, the result of which was that 200 gross

of fly-papers were sent to them on credit. It was alleged that the prisoner Frühling immediately disposed of 50 gross of these articles to certain oil merchants far below their cost price, and that overtures were made to others in the trade, some of whom, thinking that there was a suspicion of fraud, communicated with the prosecutors. It was then found that the bulk of the goods had been sent to "the General Mercantile and Commercial Agency," under which title the prisoner Joseph carried on business in Stoney Lane, Whitechapel. That place was only open for three or four hours on Sundays, when Joseph seemed to sell everything he had laid his hands on. The premises were closed during the rest of the week. Later, Messrs. Tunbridge & Wright received a letter from a Mr. Louis Bertrand, of Warren Street—that being the prisoner Frühling's address—ordering 100 gross of the same fly-papers, but it was not complied with. In the case of Messrs. Reid & Co., of Abbey Garden Works, Dunfermline, last month they received a letter from Messrs. Frank & Co., of Fleet Street. Samples were sent them, and eventually an order for goods worth 43*l.* was accepted, and the articles were forwarded to Fleet Street. These goods were moved in a hand-barrow by the two prisoners Troutz to Joseph's place in Stoney Lane. It would no doubt be alleged that Joseph, who was an agent dealing in all kinds of articles, bought and sold the goods in the ordinary way of business, but it would be shown that two years ago he was warned by the police against dealing with the others implicated. Some evidence having been given in support of the opening statement, the case was adjourned until Tuesday next, bail being accepted for Joseph.

Irish News.

Fire.

A fire occurred on Monday evening last, August 13, on the premises of M. Francois, parfumeur, 2 Nassau Street, Dublin, but was promptly extinguished on the arrival of the fire-brigade. Little damage was done.

Servants and Strychnine.

Ellen Curran, a middle-aged woman, appeared at Sligo on Monday to answer a charge of having in July last administered strychnine to Bridget Glindinning. Both women were servants, but Curran was under notice to leave her employment owing to repeated quarrels with Glindinning. It is alleged that the poison was placed in a sugar-bowl, and after taking coffee, into which three spoonfuls of sugar had been placed, Glindinning became ill. She recovered after medical treatment. The day previous to the illness Glindinning had been unable to drink a cup of tea into which she had placed some of the sugar owing to its bitterness. Her mistress put the tea from the cup and the tea from the pot into separate bottles and gave them to a doctor. The sugar was also analysed, and found to contain 40 grs. of strychnine. Evidence was given that Curran knew that strychnine was kept in the stables for the purpose of destroying rats, she having seen the coachman place it on the carcase of a rabbit with that object. He then told her of its deadly properties. The inquiry was adjourned, bail being allowed.

The Union Apothecary's Duties.

The Local Government Board has been appealed to by the Guardians of the Newcastle West Union (Cork) and by the apothecary (Mr. Cahill) on the question whether it was the duty of the latter to extract teeth and fit trusses. The Local Government Board, in transmitting to the Guardians a letter on the subject from Mr. Cahill, ask to be favoured with the observations of the Guardians in regard to this matter. The Guardians discussed the letter, but seemed to have an absolutely blank mind on the question raised. One of them suggested that it should be referred to the *Medical Press*, but a medical member said the *Medical Press* would not interfere between two medical gentlemen. Ultimately it was resolved to write to the Local Government Board, stating that after due consideration the Guardians were unable to arrive at a conclusion whose duty it is to extract teeth and adjust trusses, and request them to give a further expression of their opinion.

Scotch News.

A Custom in the Aërated-water Trade.

Some time ago we noticed the raising of an action by John Hendry, Standard Aërated-water Works, Abbey Street, Edinburgh, against Jack & Co., Waverley Aërated-water Works, Water of Leith, in which the Sheriff of Edinburgh was asked to interdict the defenders from collecting from the pursuer's customers boxes for holding bottles of aërated waters lent by the pursuer to his customers, and to deliver to the pursuer all his boxes in the defenders' possession or pay him 100*l.* as their value. The pursuer said that the defenders uplifted his boxes and used them for their own trade, and the defenders, in reply, denied having any boxes belonging to the pursuer. Sheriff Rutherfurd, who recently granted interdict, has now, after hearing evidence, dismissed the action, on the ground that the pursuer had failed to prove either that the defenders had in their possession at the date of raising the action or subsequent thereto any such boxes, or that the pursuer has sustained any loss for which the defenders could be held responsible. The Sheriff, in his judgment stated, that in any view of the matter the claim for payment of 100*l.* seemed to be utterly extravagant, seeing that the average value of the boxes was generally put at about 1*s.* 4*d.* each, while the defenders did not appear to have had in their possession prior to the raising of the action more than forty or fifty of the pursuers boxes at the most. Dealing with the custom of the trade, the Sheriff said the pursuer admitted the usage alleged by the defenders to the effect that it was the custom of the manufacturers of aërated waters to accept from customers empty bottles in any boxes used for carrying such bottles as the customer might happen to have ready at the time, although those boxes might belong to other manufacturers. This was for the convenience of the customer, and the practice seemed to have occasioned little or no inconvenience or loss to anyone, all the boxes used in the trade being of about the same value; but occasionally an exchange was made when a manufacturer found that he had upon his hands any considerable number of boxes belonging to another, who in like manner had boxes belonging to him. The pursuer knew of this custom, and acted upon it along with the defenders and other manufacturers until about the end of last year, when he appeared to have sent an intimation to other persons in the trade to the effect that he did not intend to be bound any longer by the usage in question. In this the pursuer was doubtless within his rights and would be entitled to recover damages if he could show that he had suffered any injury through the defenders having, subsequent to the notice, uplifted and made use of his boxes. The Sheriff was, however, unable to see how the defenders could be held liable in damages for what was done prior to the date when the pursuer's notice was sent. The pursuer should have rested satisfied with the interdict which he obtained instead of insisting in his claim for delivery and damages.

French Pharmaceutical News.

(*From our Paris Correspondent.*)

Chemical Congress.—It is announced that the International Congress of Applied Chemistry, which has just terminated its session for 1894 at Brussels and Antwerp, will hold its next meeting at Paris in two years time. The Association of French Chemists of Sugar Refineries and Distilleries is to be charged with the organisation of the congress in 1896. At the one just terminated M. F. Dupont, a French delegate, brought forward a proposition for the adoption of the French metric litre, to the exclusion of the Mohr or German litre, as a base for gauging and for the graduation of chemical instruments, which was unanimously carried. The French Centigrade thermometer was also

adopted by the delegates in preference to the Réaumur or Fahrenheit thermometers.

A Children's Dispensary.—In a distant part of Paris, Rue d'Alésia, there exists a children's dispensary, founded in 1884, by a Mme. Furtado Heine, with the aim of reducing mortality by preventive medication and by spreading a knowledge of hygiene amongst the poorer classes. In addition, the dispensary seeks to prevent the fatal evolution of constitutional maladies, and pays special attention to diseases of the eyes and ears. Last Saturday was the tenth anniversary of this dispensary, and more than 4,000 little patients, past and present, in ages ranging from 2 to 15 years, mostly accompanied by a parent, assembled to manifest their gratitude to their benefactress. Each child carried a little bouquet, and many had learnt a pretty little speech for the occasion. Since its foundation this establishment has distributed more than a million parcels of drugs and medicines, 205,000 sulphurous and other medicated baths have been given, the masseurs have treated 37,000 cases, the electrical department counts 27,000, while the surgeons have 21,000 dressings to their credit. In addition, an average of eighty meals a day are served to debilitated children.

Club Pharmacy.—A French newspaper, devoted to co-operative and mutual societies, has recently published a number of comments on the pharmaceutical and medical services of these institutions, which are said to be in some cases so heavy as to cause serious financial embarrassment. This is largely attributed to members, especially in the provinces, taking undue advantage of the luxury of the doctors' visits and medicaments. The president of one society complains that during the last half-year they had to pay for 220 medical visits amongst five families. Although the visits are only charged at 1f. each, he thinks they have been excessive, and suggests that a maximum should be established, beyond which members should pay extra. One society in Calais has taken up the subject very practically by requesting its doctors to confine their prescriptions to moderate-priced ingredients and to exclude expensive pharmaceutical specialities. The statutes of this society now state (1) specialities are interdicted, as well as non-medicated syrups; (2) the society does not undertake to supply alkaline or ferruginous mineral waters, but sulphurous ones may be obtained as well as Janos and similar waters. By a vote taken at a general meeting in 1891, the members decided that medicated wines should not be supplied except on the condition that the patient paid for the wine himself, the drug being given free.

Novel Ideas.—The French War Office seems to be the target for all inventors, intelligent and otherwise. Just now it is occupied with the project put forward by M. Turpin, the chemist, for the wholesale massacre of the enemy in the next great war. One luminary, however, soars to greater achievements, and proposes that the Minister of War should subjugate, and train, squadrons of horseflies. These novel warriors, it is suggested, would be fed on blood smeared beneath a thin skin-covering on dummy figures dressed as soldiers of the Triple Alliance. When diplomatic relations were near breaking-point, the flies would have the juice of certain poisonous plants added to their daily food, and when war should be declared, the French army would merely have to send them as an advance guard in the path of the enemy. The inventor of this idea seeks to protect it by a patent. A photographer is responsible for the discovery of a project for obtaining plans of the enemy's fortifications. Of course, the invention is exceedingly simple, and can, naturally, be easily carried out. It takes the form of a captive shell, made to explode over fortresses, &c., and containing a small camera attached to a parachute. The enemy's fortifications would be photographed instantaneously, the apparatus hauled down like a kite, and the only remaining operation would be to develop the plates. Another inventor thinks that explosive bullets filled with pepper would have the two-fold result of blinding the enemy and fostering French trade with its colonies; while a fourth inhuman being fancies that poisoned needles, sent to the enemy's camp by a sister of mercy, would have the effect of poisoning the soldiers' fingers, thus rendering them *hors de combat*. Similar ridiculous suggestions could be mentioned by the score, and introducers of the ideas imagine that jealousy alone prevents their acceptance.

Foreign and Colonial News.

A Magnificent Gift to Chicago University.—The Ryerson Physical Laboratory, built at a cost of $250,000, has been formally presented to the University of Chicago. It has been presented to the University by Mr. Martin A. Ryerson, in memory of his father, Mr. Martin Ryerson.

A Plague Patient.—Mr. H. E. Allen, of the Hong-Kong Dispensary, was attacked by the plague, and was treated on board the hospital-ship *Hygeia*. His case appeared to be one of purely accidental infection, as he had not been in the infected districts nor engaged in disinfecting work. The latest report stated that although his attack was very severe he was getting slowly better.

A German Pun.—Count Wilhelm Douglas, of Berlin, one of the wealthiest and most popular members of the German nobility, though of Scotch descent, is quite Teutonised, and does not speak a word of English. His revenues are mainly derived from a large potash-mine in the Hartz district, and on that account he is known in Berlin by the *sobriquet* of the "Caligraph" (kali = potash, graf = count).

Suicide of a Chemist's Assistant.—On July 2, Mr. H. V. Cox, assistant to Messrs. A J. Watson & Co. (Limited), of Hong-Kong, was found dead in bed. By his side was an empty prussic-acid bottle, and death was evidently due to this poison. Deceased was of a very sensitive disposition, and subject to attacks of hypochondriasis occasionally. He was a talented young man, and his loss is much regretted.

Tragedy with Carbolic Acid.—At the Hôtel Bellevue, in St. Petersburg, on Saturday last, a young man, who for some time had been on intimate terms with a music-hall actress, in a fit of jealousy threw some carbolic acid into his companion's face, and then swallowed a considerable quantity himself. Medical aid, says Reuter's correspondent, was at once obtained, but without avail, and the young man expired in great agony.

An Opening in Buluwayo.—A correspondent, who has a brother out in Buluwayo, sends us the following extract from one of his letters (received August 15):—"This place (Buluwayo) will undoubtedly in a very short time become one of the most important towns in the whole of Africa. There is a tremendous rush from all parts of the world, but, so far, there is a splendid opening for a newspaper, a boot-shop, a tailor, and a chemist with a good supply of drugs for fever. Already a brewery and a social club are under way, the former doing a rattling business." The opening is not one suited to everybody.

Extraordinary Recovery from Strychnine-poisoning.—The *Indian Medical Reporter* records a case in which a Hindu woman took 10 grs. of strychnine hydrochlorate with the object of committing suicide. The stomach was washed out by means of the stomach-pump with permanganate-of-potash solution, the woman being under the influence of chloroform, while injections of 30 grs. each of chloral and bromide of potassium were administered, per rectum, to control the convulsions. This was repeated five times in the twenty-four hours. The patient recovered in four days, having taken in that period 220 grs. of chloral and 240 grs. of bromide.

Explosion of a Gas Cylinder.—Messrs. Kennedy & Lusher, of Auckland, N.Z., have recently introduced into New Zealand the process for the manufacture of aërated waters by the use of cylinders containing liquid CO_2. The gas was at a pressure of 900 lbs. per square inch, but to utilise this the pressure had to be reduced to 200 lbs. per square inch, and this was accomplished by passing the gas into a second cylinder. Messrs. Kennedy & Lusher were showing the *modus operandi* to some manufacturers, when a leak was noticed in the second cylinder. This was then placed in water to determine its whereabouts, when immediately the cylinder exploded, killing them both almost instantaneously. The explosion is said to be probably due to the escape of some of the liquid CO_2 into the second cylinder and to the liquid becoming volatilised owing to the superior temperature of the water, thereby enormously increasing the pressure. The cylinder, which was of copper, was made by Messrs. Drummond & Son, of Auckland, and was only tested to 75 lbs. per square inch.

QUOTATION COMPETITION.

In July we asked, in our series of Postcard Competitions, for short quotations, not to exceed fifty words, from standard authors, such as might be used effectively in advertisements of any kind of chemists' goods. The response was not a large one, but a few happy bits have been dug out from the stores of the literature of the past.

What did Shakespeare, and Pope, and Byron, and all the rest of them write for, it may be asked, if not to furnish apt lines for the makers of soap, pills, perfumes, and sauces to use in their advertisements and on their labels? It was in the belief that this source of ideas has been imperfectly tapped that we invited the competition referred to. Perhaps now that we have indicated it, more advantage will be taken of the opportunities available.

The following are the best quotations sent in. It will be seen that we print at the end a few adaptations of Shakespearian and other bits. These were not in accordance with the conditions named, and are disqualified; but we print them to add variety:—

The late Lord Chesterfield says:—"Our philosophy is not intended to make men sour monitors who point out folk's faults, but to make them in love with their virtues—that is, to make himself and them easy while with them," [added] and to attain the proper mien, remember, take B——'s Ladasine.—Lord C., *Polite Philosopher*, p. 22.

T. Sinclair,
9 Calabria Road, Highbury, N.

General Gordon wrote from Khartoum:—"There is now not one thing I value in this world. Its honours, they are false; its nicknacks, they are perishable and useless; whilst I live I value God's blessing—health—and if you have that, as far as this world goes, you are rich."

Vox.

"Love and a cough cannot be hid."—Try Blank's Cough-mixture.

"The fat man knoweth not what the lean man thinketh."—For an "Anti-Fat" speciality.

Better pay the Cook "than the doctor."—Cook's Antiseptic Soap.

A. Biddle, 8 Princes Street, Lisson Grove, W.

"Wait not to find thy slippers
But come with thy naked feet."
Longfellow, *The Spanish Student*.

Suitable for Condy's Fluid for tender feet.

J. V. Mitchell, 15 Upper Baker Street.

"Take this for thy pains."
Shakespeare, *Two Gentlemen of Verona*.

For an Embrocation.

A. Felthouse, 11 Edbrooke Road, Paddington.

Voltaire described England as a country with fifty religions and only one sauce. The statement of this distinguished Frenchman is as true to-day as when he wrote—over a hundred years ago. England has only one sauce. It is made by A—— and known to an enlightened public as X—— Sauce.

C. Bell, 39 Buchan Road, Nunhead, S.E.

"So every bondman in his own hand bears
The power to cancel his captivity."
From *Julius Cæsar*, Act I., scene 3. Casca to Cassius.

Tom Williams, Chester.

"And thither bied a sad distempered guest."—Shakespeare's *Sonnets*.

Suitable for a chemist advertising any speciality wishing to catch the public eye.

H. B. Sharman, Normanhurst, Leighton Buzzard.

"He faded, and so calm and meek,
So softly warm, so sweetly weak,
So tearless, yet so tender, kind,
And grieved for those he left behind."
Byron, *Prisoner of Chillon*.

Blank's Q. and I. Tonic was not known in those days, or he would not have faded away.

"Like a rose embowered in its own green leaves."
Shelley, *The Skylark*.

Advertisement for perfume.

"Rise, rise like a cloud of incense from the earth."
Coleridge, *Hymn in Vale of Chamouni*.

Advertisement for perfume.

"I, trembling, waked, and for a season after could not believe but that I was in hell, such terrible impression made my dream."
Shakespeare, *Clarence's Dream*.

If you wish to avoid such nightmares take Blank's Liver-pills, &c.

G. W. Hodder, A.P.S., Frome.

"Every medicine is an innovation, and he that will not apply new remedies must expect new evils, for time is the greatest of innovators."
Bacon.

Protemberk.

"Nothing comes nigh it,
. . . .
A real blessing, and no mistake,
Invented for poor humanity's sake."

A Tale of a Trumpet from Tom Hood's *Poems of Wit and Humour*, p. 11, edition year 1864, published by Edward Moxon & Co., Dover Street,

W. Dodd, Monkwearmouth.

For Advertising Blank's Cough-mixture.

"Nulla dies nobis maerorem, e pectore demet." (There is no day with anguish absent from the breast.)—Lucretius.

D. N. O. Watson, 48 Henry Street, Dublin.

"What is infirm from your sound parts shall fly;
Health shall live free, and sickness freely die."
Shakespeare, *All's Well That Ends Well*, Act II., sc. 1.

J. Jewson, apprenticed at Messrs. Oldham & Son's, 10 Market Street, Wisbech.

Diogenes said, "Let him that would move the world first move himself."

Modus procedendi:—
Take of—
Energy,
Determination,
Excellent health,
Pure grit.
Of each sufficient quantity.

Form a phalanx and keep them "moving."
Result: Startling of your "sphere."
N.B.—Excellent health assured by the use of "The Diogenes Health Saline."

A. S. W.

"Ah! sure my looks must pity wake!
'Tis want [of iron] that makes my cheeks so pale."
From *The Orphan Boy*, by Mrs. Opie.

Use Bland's pure iron pills to restore colour and enrich the blood. Twelve dozen post free for 1s.

Winolia.

"The means that Heaven yields must be embraced,
And not neglected; else, if Heaven would,
And we will not, Heaven's offer we refuse."
Shakespeare

J. E. Mason, Bexley.

"Fair tresses man's imperial race ensnare,
And beauty draws us with a single hair."
Pope.

Suitable for a hair-lotion or application.

A. H. Mould, 14 Grange Park, Thornton Heath.

"Parsons these things in thy possessing
Are better than the Bishop's blessing."
Pope.

For voice-lozenges, jujubes, cocoa lozenges, &c.

G. A.

"And round her lamp of fretted gold
Bloom flowers in urns of China's mould,
The richest work of Ivan's loom,
And Sheeraz' tribute of perfume;
All that can eye or sense delight
Are gathered in that gorgeous room."

The Bride of Abydos, Byron.

For Perfumery. "Flowers of Sheeraz" are sold as a perfume at Olympia by Sandow & Co.

G. A.

"When fevers burn, or ague freezes,'
Rheumaties gnaw, or cholic squeezes;
Our neighbours' sympathy may ease us,
We pitying moan;
But thee—thou hell o' a' diseases
Aye mocks our groan!

Burns, *Address to the Toothache.*

For toothache-cures, nerve-tonics, &c.

G. A.

"A little learning is a dangerous thing;
Drink deep, or taste not the Pierian spring.
For shallow draughts intoxicate the brain,
But drinking largely sobers us again."

So says the poet Pope; but it was by means of a great deal of learning the medicinal virtues of Hemlock Jones's "Neuralgic Tonic" were discovered, and many a sufferer who had taken (without any effect) the "shallow draughts" made of nostrums offered by unscrupulous herbalists and charlatans, to his joy has received a lasting benefit by taking a course of the "Neuralgic Tonic," which is an infallible cure for, &c.

J. C. Matthew, 28 Kilburn Lane, W.

Ess. Bouquet.

"The dews
Of precious flowers pluck'd in Araby,
And divine liquids, come with odorous ooze
Through the cold serpent-pipe refreshfully.

Keats, *Isabella.*

C. C. Bell, Epworth.

For a Perfume-label.

"It is sweet.
A thousand different odours meet
And mingle in its rare perfume,
Such as the winds of summer waft
At open windows through a room.

Golden Legend, Longfellow.

F. C.

The same quotation is sent by J. W. Hodges, Winchester.

"Now, shall the mangled stump teach proud men a lesson."

Not necessarily, if he'll use "Le Sueur's Essentia Mirabilis," the marvellous remedy for toothache, &c., &c.

Quotation.—First line, fifth stanza, of "Yesterday," Tupper's *Proverbial Philosophy.*

Chas. Le Sueur, 15 Charing Cross, Jersey.

Suggestion for an Anti-fat.

"Look here upon this picture and then on that."

"Oh, that this too, too solid wall of flesh would melt!"	First picture. Before use. Fat Woman.
"See, what a falling off is here."	Second picture. After use. Lean Woman.

Vox Celestis.

Suitable for Corn-application.

"If one man was to spend his whole lifetime in finding out a certain cure for corns, he would deserve well of posterity, and might be said sufficiently to have served his generation."—Sydenham.

G. A. Hebblethwaite, Drypool, Hull.

"Lavender Water.—The highest compounded spirit of lavender; the most glorious and enlivening scent and flavour that can possibly be, which so enraptures the spirits, delights the eye, and gives such airs to the countenance, as are not to be imagined but by those that have tried it.—From *Tatler*, No. 224, by Addison.

James Laing, Laurencekirk, N.B.

Advertisement for a perfume, such as "The Breath of the Lilies" or "The Essence of Lilies," &c.:—

"'Thy pallid droop,' cried I, 'but more than all,
Thy lonely sweetness takes my soul in thrall.'
. . . .
My lady dovelike to the lily went,
Took in curved palms a cup, and forward leant,
Deep draining to the gold its dreamy scent."—Woolner.

Johnson Cripps, Reepham, Norwich.

"My name is O'Reilly,
I've heard the reveilly
From Birr to Bareilly,
From Leeds to Lahore;
And, sor, if ye've iver
Been vexed with yer liver,
Take Blank's pills and it niver
Will trouble you more."

R. Kipling's *Barrack-room Ballads.*

William Chalmers, Bootle.

"Happy he," says Carlyle ("Sartor Resartus," cap. x.), "who can look through the clothes of a man . . . into the man himself; and discern, it may be, in this or the other dread potentate a more or less incompetent digestive-apparatus." But the man who uses Blank's Bismuth Mixture will always find his digestive-apparatus competent.

Mrs. Chalmers, 50 Hawthorne Road, Bootle, Liverpool.

"Things sweet to taste are in digestion sour."—John of Gaunt, in *Richard II.*, Shakespeare.

[J. E. L.

"Our doubts are traitors, and make us lose the good we oft might win by fearing to attempt."—Shakespeare.

J. E. Vause, Edgware Road, W.

Messrs. Somebody's Unrivalled Patent Something, welcomed by the inhabitants of Europe, Asia, Africa and America.

"Why on those shores are we with joy survey'd,
Admired as heroes, and as gods obeyed,
Unless great acts superior merit prove,
And vindicate the bounteous powers above?
. . . .
Such, they may cry, deserve the sovereign state
Whom those that envy dare not imitate!"

Pope's translation of Homer's *Iliad*, Book xii.

Ann S. Wright, 29 Grosvenor Park, London, S.E.

"Saul hath slain his thousands, and David his ten thousands" (Samuel xviii. 7), but Blank's insect-powder will exterminate the species.

H. McKenzie, Brighton.

Advertising Blank's Liver-mixture.

"There is a medicine for the ills of men
Which, taken in disease, leads on to health;
Omitted, all the voyage of their life
Is bound in weakness and in miseries.
Such panacea have we now at hand,
And we must take this certain remedy
Or we shall suffer."

Adapted from Shakespeare's *Julius Cæsar.*

Brutus.

"To gild refined gold, to paint the lily,
To throw a perfume on the violet,
To smooth the ice, or add another hue
Unto the rainbow, or, by any means
To seek to improve Blank's Little Liver Pills
Is wasteful and ridiculous excess."

Adapted from *King John.*

Vox, et Præterea Nihil.

"You may as well go stand upon the beach
And bid the main flood 'bate his usual height;
You may as well use question with the wolf
Wherefore he made the ewe bleat for the lamb,
As seek to cure your corns, whether soft or hard,
Without Blank's Corn-paint."

Adapted from *The Merchant of Venice.*

Vox-All.

"Have they a father?
Have they a mother?
Or is there a nearer one
Still and a dearer one
Yet than all other?
Wonderful rarity!
HERBULINE'S charity
Comes to each one!
And it were pitiful
If a whole city full
Didn't have some."

The Bridge of Sighs, by T. HOOD.

JAMES MCCONECHY, at the Herbuline Manufacturing Company, 67 Renfield Street, Glasgow.

"Beneath the rule of sovereigns high and great,
The *pill* is now mightier than the *sword*.
So take away the arch enchanter's wand,
Itself a nothing!
States can be severed without it,
But will *not be* without the pill."

LYTTON'S *Richelieu*.

H. ELEY, 9 Link Road, Summerfield, Birmingham.

SHAKESPEARIAN QUOTATIONS UP TO DATA.

(1)

"Here is everything advantageous to life,
Which therein works a miracle in nature.
My night of sorrow now is turned to day,
For that it cured *me* keep it in like extremity!"

(2)

"After all my crosses, thou gavest me something to repair myself, which raised in me an undergoing stomach to bear up; and my long sickness of health and living now begins to mend!"

(3)

"Defer no time, delays have dangerous ends; former strength may be restored with good advice and medicine. And what is infirm from your sound parts shall fly: Health shall live free, and sickness freely die."

(4)

"I cannot speak enough of this. 'Tis good for your health and your digestion's sake, and much surpasses all common praise."

(5)

"Our remedies oft in ourselves do lie which we ascribe to heaven. So long as men can breathe or eyes can see, So long lives this, and this gives life to me!"

(6)

"If you thrive I hope you'll remember from whence you had this. For is there not a double excellency in it which bars a thousand harms, and lengthens life?"

(7)

"Here is everything advantageous to life; and it I will have, or I will have none. It is good for your health and your digestion's sake, and comforteth like sunshine after rain!"

(8)

"This medicine has charms in it, and brings health and glad tidings.
'Twill make you digest with better appetite,
And make strength stronger."

(9)

"This pleasing cordial is an excellent good thing. 'Tis rich in virtue,
And as wholesome and sweet
As very infant's prattle."

(10)

"There is *a time* in the affairs of men (and women) when, if ——— ——— be taken, it—or they—may lead on to health, happiness, and prosperity; but, if omitted, life may be rendered miserable and unprofitable. Take the medicine *in time* to secure the best results."

H. ELEY, 9 Link Road, Summerfield, Birmingham.

We are not highly gratified with the result of this competition, for we think it should have been infinitely better. It would not be difficult to select from Shakespeare alone some hundreds of effective lines, any one of which might be used in a telling manner as a head-line to advertisements. Suppose, for example, that some patent-medicine maker were to adopt the five words from the *Two Gentlemen of Verona* sent in by Mr. Felthouse, and always employ it; the words would soon become associated with his preparation, and that association would fix both the quotation and the medicine in the minds of every reader or passer-by. We would not recommend the quotation, as Mr. Felthouse does, for an embrocation, as an embrocation should not be taken. Mr. Hodder's extract from Clarence's Dream, followed by the advice to avoid such nightmares by taking Blank's Liver-pills, is another happy suggestion, though it would not do for a permanency. A third quotation which strikes us as a useful one is the one from Pope sent by Mr. A. H. Mould as a heading to a hair-application advertisement. We regard these three as of about equal merit, and we therefore award half-a-guinea each to

Mr. A. FELTHOUSE, 11 Edbrooke Road, Paddington;
Mr. G. W. HODDER, A.P.S., Frome;
Mr. A. H. MOULD, 14 Grange Park, Thornton Heath.

Trade-Marks Applied For.

ANY person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," August* 8, 1894.)

"THE GROSVENOR COUGH-CURE COMPANY," as signature; for chemical substances used in medicine and pharmacy. By W. Locking & Son (also trading under the above title), 21 High Court Lane, The Calls, Leeds. 180,878.

Device of bottle-brush; for mineral and aërated waters. By J. Davies, 79 Prescot Street, Liverpool. 181,198.

"PHYLLIS"; for preparations for the hair and teeth, and toilet-preparations. By J. & R. Dent, 14 Earlsmead Road, S. Tottenham, N. 179,570.

"THE PIXIE BOUQUET," and device of pixies, fairies, and toadstool; for a perfume. By Robson & Son, 46 Westborough, Scarborough. The essential particulars are the words "The Pixie" and combination of devices. 180,861.

"LEHLIA"; for toilet-preparations and soaps. By Squire & Sons, 413 Oxford Street, London. 181,019.

(*From the "Trade Marks Journal," August* 15, 1894.)

"VACANCE"; for disinfecting soap, disinfecting powder, &c. By Read, Holliday & Sons (Limited), Cambridge Buildings, Upperhead Row, Huddersfield. 181,208.

"THELMA"; for a medicinal preparation for human use and for dentifrices. By E. B. White 18 Rectory Chambers, Church Street, Chelsea. 180,846, 180,262.

Devices of stags and landscape and wording; for medicines for external use. By A. Robertson, Glenowen, Roseneath, N.B. The essential particular is the combination of devices. 180,969.

"ALBERT'S GRASSHOPPER OINTMENT AND PILLS," and device of man astride grasshopper, and carrying banneret; for ointment and pills for human use. By Albert & Co., 73 Farringdon Street, London. The essential particulars are the device and the word "Grasshopper." 181,119.

"WYETH'S BEEF-JUICE," and facsimile signature and wording; for beef-juice. By John Wyeth & Brother, Washington Avenue, Philadelphia, U.S.A. The essential particular is the facsimile signature. 180,665.

Representation of squirrel eating nut, in circular design, and wording; for perfumery. By Arthur S. Hill & Son, 101 and 103 Southwark Street, London, S.E. 180,573.

"WELL, Jim, how's the ague?" "Didn't I tell you about that? Why, I went into the old man Sharp's field one night about a week ago, and the old man got up and loaded his gun in the dark, 'n' cuss me if he didn't blow me full of two-grain quinine pills! I hain't had an ache nor shake since."

Legal Reports.

Defective Drugs.

In the Birmingham Police Court, on August 10, before Messrs. Fisher, Ryland, and G. Tangye, Thomas Gilman, chemist and druggist, Gosta Green, was summoned under the Sale of Food and Drugs Act for having sold to the prejudice of the purchaser a quantity of precipitated sulphur, which contained 57 per cent of sulphate of lime. Mr. McCardie defended. Thomas Davis, inspector under the Food and Drugs Act, stated that he visited defendant's shop at 10 A.M. on July 17, and obtained from the assistant, Thomas Birch, 2 oz. of precipitate of sulphur, for which he paid 1½*d*. Dr. Hill subsequently analysed the sample, reporting it to contain 57 per cent. of sulphate of lime.

Mr. Fisher: What is the difference in the price between proper sulphur and sulphate of lime? Witness: I don't know: I never bought sulphate of lime. Cross-examined by Mr. McCardie: He took other samples in the shop—namely, of tincture of rhubarb and linseed, and both were correct. He had not visited Mr. Gilman's shop on previous occasions.

Mr. McCardie, in defence, submitted that the sale was a mistake on the part of the assistant in the shop, and that there was not the slightest intention to defraud. In January last Mr. Gilman ordered 7 lb. of sulphur lac from Messrs. Blackwell & Co., and, according to his instructions, it was delivered in a bag labelled "sulphur precipitatum." The assistant did not know of the order, and naturally concluded that the bag contained precipitated sulphur. Even a skilled chemist might mistake the one for the other if he did not see them together. The retail price was the same, and Mr. McCardie pointed out that the sulphur cost about 6*d*. a pound, and the sale was about ½ lb. a month. His client was a most respectable tradesman, having been in business for over thirty years and never having had a previous complaint made against him. Thomas Birch, the assistant, said that he supplied the sulphur from the bag produced, which was one of Messrs. Blackwell's bags. In answer to Mr. Fisher, witness said that he did not always examine the articles sent to see that they agreed with the invoice. The Bench considered that greater care should be taken by chemists and druggists to see that the articles received were checked with the invoice. The defendant was responsible, and would have to pay a fine of 40*s*. and costs.

John Thomas Cattell, chemist and druggist, of 217 Great Lister Street, was summoned at the same Court for selling tincture of senna which contained only 25 per cent. of the proper ingredients. Mr. Mountford, who defended, said the reason the tincture purchased did not contain the proper percentage of ingredients was because the assistant had omitted to shake the bottle. Mr. Fisher considered that the assistant wanted shaking. A fine of 40*s*. and costs was imposed.

Aquila Baldwin, of 163 Great Lister Street, was similarly fined for selling tincture of rhubarb which contained only 80 per cent of the solid ingredients. The defence in this case was the same as in the one preceding.

[The names of Thomas Gilman and Aquila Baldwin do not appear on the register of chemists and druggists.]

At the Bradford West Riding Police Court, on August 19 Betty Womersley, grocer, Pudsey, was summoned for selling an adulterated drug to the inspector, a quantity of tincture of rhubarb, which contained only three-quarters of the amount of extractive matter and two-fifths of the standard amount of alcohol. For the defence it was stated that the defendant sold the drug in exactly the same state as she purchased it, and as she was not an analyst, she could not tell whether it was up to the standard or not. She was quite ignorant of the fact that it was defective, otherwise she would not have sold it. Under the circumstances the Bench ordered the defendant to pay the costs.

A Vinegar-maker Convicted on a Warranty.

At Chichester Police Court, on August 11, Oswald D. Cottell, vinegar-manufacturer, 101 Long Lane, Borough, London, was summoned for giving a false warranty in writing to a purchaser—to wit, Wm. Blythe—in respect of vinegar sold by him at Rumboldswyke on April 5. Some time back Blythe was summoned for selling adulterated malt vinegar. He pleaded a warranty consisting of an invoice and of a label attached to the barrel which stated that the contents were "guaranteed pure malt vinegar." The sample in question, according to the certificate of Mr. Otto Hehner, public analyst, contained 30 per cent. of vinegar made from malt and 70 per cent. made from other ingredients. Mr. Blythe stated that he gave the defendant 9*d*. per gallon for the vinegar, asking to be supplied with the cheapest malt vinegar.

Mr. Otto Hehner was the principal witness for the prosecution. He said the description on the invoice and label was a false one. There was nothing injurious in the vinegar. Cross-examined by Mr. Parker Cogan, on behalf of the defendant, Mr. Hehner said that vinegar could be made from oats or rye; and asked if there was any real definition of malt, he said that the broad and recognised definition was that malt as sold commercially was malt made from barley. If a man bought malt he expected to get barley malt.

The defence was that the article in question was recognised in the commercial world as malt vinegar, and no legal evidence had been adduced to show that anything impure had been used in the vinegar or to show that it was illegal to use saccharine substances in malt vinegar. The basis of vinegar was sugar, whether derived from the sugar in the malt or added sugar, and therefore it was legal to add sugar to vinegar brewed from malt and unmalted grain.

Defendant was called, and stated that he always understood that malt vinegar was vinegar made from a proportion of malt, unmalted grain, and other saccharine matter. No vinegar-house that he was aware of used malt alone in making vinegar, nor did he know of any house using barley malt alone. Malt vinegar was vinegar made from malt, barley, oats, sugar, and, in fact, any saccharine matter. This particular sample was genuine malt vinegar; it was a wholly-brewed vinegar.

The Bench convicted, and fined defendant 5*l*. and 5*l*. costs, and declined to state the grounds of their decision.

Revocation of a Patent Medicine for Indigestion.

In the Chancery Division of the High Court of Justice on two days of last week, Mr. Justice North had before him the petition of the Pharmaceutical Society that the letters patent granted to Elizabeth Vaisey, No. 20,062 of 1893, for an "Improved Medicinal Preparation for the Cure of Indigestion and like Complaints," might be revoked.

Mr. Roger Wallace, in support of the petition, said that the petition stated that the invention as set forth in the complete specification of the letters patent consisted, "for example, of a 2-oz. bottle, as follows":—

Diluted prussic acid	½ dr.
Bicarbonate of potash	1 dr.
Compound tincture of lavender	2 dr.
Distilled water, add to make up	2 oz.

The claim set out in the specification was as follows:—"A medicinal preparation consisting of the above-mentioned ingredients combined in or about the proportion stated." The combination of prussic acid and bicarbonate of potash mixed with distilled water had been well known and used for many years as a cure for indigestion. The tincture of lavender was added to the preparation for the purpose of colouring or flavouring such mixture. The addition of tinctures or essences for the purposes of colouring and flavouring mixtures of diluted prussic acid and bicarbonate of potash was also well known, and had been in common use among chemists and druggists for many years, and the said letters patent were not proper subject-matter for a grant of valid letters patent. Elizabeth Vaisey had failed in the complete specification to declare the nature of her invention, and had not stated sufficiently the proportion of the various ingredients set out in the complete specification, which it was necessary to use in order to carry out her alleged invention. It was stated in the specification that one of the compound parts was diluted prussic acid, but no direction was given as to the strength of the prussic acid which was to be used.

In the claim the words "combined in or about the proportion stated" appear. The petitioners submitted that the statements were vague and misleading, and imposed upon persons who might desire to use the invention the necessity of ascertaining by trial and experimenting what was the proper strength of prussic acid to be employed, and the exact proportion of the various compounds to be used. One of the ingredients mentioned in the specification (prussic acid) was a "poison," and came within the provisions of the Pharmacy Act, 31 and 32 Victoria, chap. 121, and it would be prejudicial to her Majesty's subjects if under letters patent which were voidable such poison should be sold, by virtue of its being included in the letters patent granted to Vaisey, without being subject to the restrictions as to sale contained in the Act. On these grounds the petitioners prayed that the patent would be revoked.

There was no opposition to the petition.

Mr. Justice North made the order asked for.

Wholesale Druggists and the Omnibus.

Messrs. Herrings, wholesale druggists, of 40 Aldersgate Street, were the defendants in the Lord Mayor's Court, on August 10, in a suit brought by Mr. William Silverton, an omnibus proprietor, of Tabernacle Street, Finsbury, who claimed damages for the alleged negligence of the defendants' servants. In May last the plaintiff averred that one of his omnibuses was run into in Cheapside by a horse and van owned by the defendants. The back panel of the omnibus was smashed and the stairs and platform were damaged. The damage had been repaired at a cost of 18*l.* 17*s.* 6*d.*, which sum the plaintiff now claimed, together with loss of profit whilst the omnibus was under repair. Between May 10 and 17 the plaintiff said he was unable to hire another omnibus, and between May 17 and 25, when the repairs were completed, he was able to do so at a cost of 1*l.* 10*s.* He estimated his loss of profit during the earlier part of the time at 2*l.* 10*s.* each working-day, and on Whit Sunday and Monday 5*l.* each day. His total claim amounted to 42*l.* 10*s.* The defendants did not deny negligence or liability, and the sole question at issue was as to the amount of damages which the plaintiff was entitled to. The defendants paid 27*l.* 10*s.* into court as sufficient to satisfy the plaintiff's claim. The jury found for the plaintiff for 40*l.*

Adulterated Ginger.

At South Shields Police Court, on August 16, Messrs. Johnson & Dodds, of Newcastle, were summoned, under a warranty, for the sale of ground ginger adulterated with 70 per cent. of spent ginger. The case resulted from a prosecution of the South Shields Co-operative Society in regard to the sale of this ginger. The society pleaded warranty, and the case was dismissed against them, and this prosecution was undertaken. Messrs. Johnson & Dodds, in turn, pleaded that they received a warranty from the London people of whom they bought the ginger—Hanson, Son & Barter. The Bench fined Johnson & Dodds 15*l.*, but believed they were not to blame, and had acted in good faith. It was stated that the ginger had been taken back by Messrs. Hanson.

New Companies and Company News.

Roys (Limited).—Capital 6,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of, and dealers in, foods for infants and invalids, blanc-mange and custard powders, baking powders, and farinaceous foods of all kinds. The first subscribers (who take one share each) are:—Wm. Jordan, 55 Highbury Park, N., parliamentary agent; E. A. Jordan, wife of above; F. Shields, 18 Eade Road, Finsbury Park, N., clerk; F. S. Hockaday, clerk; W. T. Jones, clerk; H. C. Newman, clerk; A. J. Bateman, 33 Wellington Place, Blackfriars Road, S.E., printer. The first directors are to be appointed by the subscribers.

The Clinical Research Association (Limited).—Capital 10,000*l.*, in 1*l.* shares. Objects: To carry on the business of analysts, chemists, druggists, importers, and manufacturers of, and dealers in, pharmaceutical, medicinal, chemical articles, &c., photographic, surgical, and scientific apparatus, &c. The first subscribers (who take one share each) are:—L. E. Shaw, 10 St. Thomas's Street, S.E., physician; Mary H. Shaw, wife of above; E. C. Perry, Guy's Hospital, S.E., physician; Caroline Perry, wife of above; J. Jones, Croydon General Hospital, Secretary; W. R. Millar, 53 Borough High Street, S.E., solicitor; C. H. Wells, Southwark, accountant. Registered office, 5 Denman Street, London Bridge, S.E.

The British Castor Company (Limited).—Capital 3,000*l.*, in 250*l.* shares. Objects: To carry on the business of oil manufacturers and merchants, manure-merchants, chemical-manufacturers, dealers in castor and oleaginous seeds, &c. The first subscribers (who take one share each) are:—A. Browne, 182 Holland Road, W., engineer; A. Rogers, 72 Baron's Court Road, W., engineer; G. Mitchell, 47 Victoria Street, Westminster, engineer; J. R. D. Hill, 3 Tanfield Court, Temple, barrister; S. Tuely, Putney, solicitor; A. S. N. Davis, 20 Dorset Square, N.W., solicitor; V. M. Wodsworth, 72 Baron's Court Road, W., gentleman. The first directors are G. Mitchell, A. S. N. Davis, and A. Browne. Qualification, 250*l.*

Sequah.—The report of the directors states that the result of the year's trading shows a net profit of 1,564*l.*, which, with the amount brought forward, makes a total of 2,098*l.* This result the directors are of opinion the shareholders will consider satisfactory, inasmuch as the same cause for the smallness of the profit as was mentioned in last year's report still remains—viz., the inability of the directors to advertise, through lack of working capital. The directors feel that the company's present position justifies their considering some plan by which this difficulty may be met, and hope, therefore, to be in a position to lay some proposal before the meeting with this end in view. The directors recommend that a dividend of 2½ per cent. on the preference shares be declared, placing 292*l.* to reserve, and carrying forward 556*l.*

The fourth annual general meeting of the company was held at Winchester House, Old Broad Street, E.C., on Thursday. Mr. Sidney F. Isitt presided, and in moving the adoption of the report and accounts, claimed credit for the board of directors in having done everything possible to facilitate the production of the company's accounts. He would not, however, claim it for their agents abroad, as some of their reports had not been received, and therefore were not included in the accounts; otherwise they would have had an additional profit to report. Referring to the accounts, he pointed out how in several directions the directors had introduced economies by reducing expenses. Their predecessors on the board had left them a legacy of troubles and a number of law actions, but those difficulties were being gradually overcome. The directors had so far reduced the expenses that they were able to present to the shareholders a profit-and-loss account which showed an increased net profit. They had stopped working the retail trade in Holland, but they had made favourable terms with their manager there, under which he took over the stock, but the effect of that arrangement would not be felt until next year. They were still working the retail trade in Australia and South Africa, and in Australia a good wholesale trade had also been established. The entire trade indebtedness of the company at the present time only amounted to about 200*l.* (Applause.) The reserve fund stood at 707*l.*, and it was proposed to add to it that day sufficient to raise it to 1,000*l.* Some more effectual means of advertising was a matter which the directors had under their most serious consideration. They had been surrounded by many difficulties, but they looked to the shareholders with confidence for support and encouragement in the development of an enterprise for which they believed there was still room. (Applause.)

Mr. W. H. Fassett seconded the motion.

Mr. Ball, a shareholder, suggested that the report ought to contain the figures of the company's trading and the amount of the business done. He did not think that the results of the company had been such as to tempt anyone to embark in a similar business.

The report was then carried and a dividend at the rate of 2½ per cent. on the preference shares declared.

Bankruptcy Report.

Re Mark Foggit Thompson, 17 Gordon Street, Glasgow, Chemist and Druggist.

The examination in bankruptcy took place on Wednesday last week at Glasgow, before Sheriff Birnie, of Mark Foggit Thompson, chemist and druggist, 17 Gordon Street, Glasgow, and also at one time at 97 Princes Street, Edinburgh, as an individual, and also as one of the partners of the firm carrying on business under the name of M. F. Thompson, chemist, 7 St. Ann Street, Manchester. A state of affairs was submitted, showing liabilities 4,337*l.* 17*s.* 11*d.*, and assets 1,378*l.* 1*s.* 10*d.* Bankrupt stated that he had been sixteen years in business in Glasgow. He had also a business for five years in Edinburgh, and he had an interest in a business in Manchester from March of this year. He disposed of the business in Edinburgh to his brother last January. He put 200*l* worth of stock into the Manchester business, and his partner there put in 200*l.* of cash. The 200*l.* had been repaid to bankrupt by his partner, so that there was now nothing due to him from that business. The rent of the Manchester shop was 312*l.*, exclusive of taxes. Up till March of this year he had three shops in Glasgow. He shut up the shop in New City Road because it did not pay. He lost about 500*l.* on that shop. The examination was adjourned until October 2 in order that an offer of composition might be considered.

Gazette.

PARTNERSHIPS DISSOLVED.

Blackie, J. T. C., and **Williams, S. N.**, under the style of Brown & Co., Chorlton-upon-Medlock, Manchester, soap manufacturers and drysalters.

Blandford, G. F., Esq., M.D., late Grosvenor Street, Grosvenor Square, W., now Wimpole Street, Cavendish Square, W., **Williams, C. F.**, Esq., Munster House, Fulham, S.W., and **Curtis, W. K.**, Esq., M.R.C.S., Burgate, Canterbury, under the style of Blandford, Williams & Curtis, Munster House, Fulham, S.W., keepers of a lunatic asylum for male patients.

Braithwaite, S., and **Kimpster, T. M.**, under the style of Braithwaite & Kimpster, Egremont, surgery and medicine.

Gardner, E. A., and **Branch, H. G.**, under the style of Gardner & Branch, Gloucester, brewers and mineral-water manufacturers.

Gaunt, R. D., and **Gaunt, T. S.**, under the style of Gaunt Brothers, Union Street, Southwark, S.E., wholesale druggists.

Hartley, F. J., and **Acton, J. S.**, under the style of Hartley & Acton, Birkdale, dental surgeons.

Moore, A. W., and **Reid, A. W.**, under the style of Moore & Reid, Brunswick House, High Street, Bromley, S.E., and High Street, Beckenham, S.E., veterinary surgeons.

Powell, K. B., and **Smith, F. A.**, Chepstow, wine and spirit merchants, mineral-water manufacturers.

Scott-Moncrieff, W. D., and **Wingate, G. M.**, under the styles of the North British Plumbing and Scientific Sanitation Company and the Cultivation Filter Bed Company, Newman Street, Oxford Street, W., sanitary engineers and contractors, and Victoria Street, Westminster, S.W., under the style of W. D. Scott-Moncrieff, C.E., engineers.

Southern, T., and **Southern, W. H.**, under the style of Thos. & Wm. Southern, Salford, manufacturing chemists.

Woods, G., **Proctor, J.**, and **Goodier, J.**, under the style of Woods, Proctor & Goodier, Preston, wholesale druggists and drysalters.

THE BANKRUPTCY ACTS, 1883 AND 1890.

Receiving Orders.

Elliot, Thomas (trading as Thomas Elliot & Co.), Bristol and Portishead, Somerset, produce broker.

Kendall, William Edward Vaughan (trading as Waldron & Co.), Worcester, sauce manufacturer.

Adjudication.

Wright, Walter (trading as Baker & Wright), Chelmsford, chemist and druggist.

The following notice is taken from the *Edinburgh Gazette* of August 10:—"Creditors of **Walter Forbes**, chemist and aërated-water manufacturer, Edinburgh and Newcastle, and lately residing at 24 Beaverhall Terrace, Edinburgh, will receive a dividend, September 17, in the chambers of Hugh Miller, 24 Hill Street, Edinburgh."

Trade Notes.

Messrs. Ingram & Royle, as agents for the Carlsbad Mineral-water Springs, ask us to correct a statement in our report of the British Medical Association Exhibition at Bristol in our issue of August 4, in which it was stated that Messrs. S. Kutnow & Co. showed "the natural sprudel Carlsbad salt." Messrs. Ingram & Royle state that the label on Messrs. Kutnow's bottle expressly claims that that salt is an "improved effervescent Carlsbad powder," and is not therefore in its exact natural condition.

The Royal Selters Water.—The Prussian Government has granted a lease of the Royal Mineral Springs at Niederselters to Mr. Frederic Siemens. This water has long enjoyed great popularity, and it is described by Professor Tichborne and Dr. Prosser James, in their work on "The Natural Mineral Waters of Europe," as the most celebrated spring in the world. By special order the lessee is forbidden to add anything whatever to the water as it comes from the spring, and it is bottled as absolutely natural mineral water. It is a particularly pleasant, fresh, sparkling water, with a moderate effervescence, and is sold in this country by Messrs. Pickardt & Co, 26 Regent Street, W.

Deaths.

Cox.—On July 2, Mr. H. V. Cox, chemist and druggist, of Hong-Kong.

Galloway.—At Arkdeen, Inverness, on August 7, Mr. George Galloway, chemist and druggist. Aged 85 years. The deceased, who was senior partner in the firm of Galloway, Son, & Macleod, went to Inverness in 1829, and for twenty-eight years acted as manager to the late Mr. Forbes. He then became a partner, and afterwards sole proprietor of the business, and until within a few weeks of his death was in regular attendance at the business. Mr. Galloway, who was for many years Local Secretary to the Pharmaceutical Society, was universally respected by his fellow-citizens; and, as a token of respect and esteem for the deceased, all the local chemists closed their businesses, and attended the funeral with their assistants and apprentices. He leaves a widow and a family of one son and four daughters.

Irvine.—At 9 Bernard Terrace, Edinburgh, on August 10, Mrs. Jane Scott, relict of Andrew Irvine, chemist, Alloa.

Johnson.—Very suddenly, on August 7, Mrs. Johnson, widow of the late Mr. J. B. Johnson, chemist and druggist, Uttoxeter.

Negus.—On August 10, Mr. John Henry Negus, pharmaceutical chemist, of Northampton. Aged 28 years.

Welch.—At Anstruther, N.B., on August 10, Mr. George M. Welch, chemist and druggist, formerly traveller for Messrs. Gardner & Ainslie, Edinburgh.

Alleged Adulteration of Permanganate of Potassium.—*Food and Sanitation* is troubled about the alleged sophistication of permanganate of potassium. "The Germans" (those poor Germans, they sadly need their broad backs), it appears, are making a spurious permanganate from dextrin, coloured with malachite green, which is mixed in large quantities with the genuine compound. "To the professional eye (says *F. and S.*) the adulteration is easily detected, but the general public can be swindled by it with impunity (*sic!*). The whole question, however, of disinfectants is absolutely unsatisfactory, inasmuch as, however worthless or rubbishy they may be, they do not come within the scope of the Food and Drugs Acts, and therefore cannot be proceeded against if adulterated. As it is, the market is flooded with worthless trash. This is a question which should certainly be brought before the notice of the Adulteration Committee now sitting."

SOUTH AFRICAN NOTES.

An important question affecting the relations of chemist, with the medical faculty has been much disoussed of late, and is still exercising the minds of pharmacists throughout the colony. The principle at issue has at various times been the subject of controversy at home, and some account of what has taken place has already appeared in your columns. The origin of the medico-pharmaceutical troubles is briefly as follows:—Prior to the passing of the Pharmacy Act of 1891—a measure which placed the trade in this country on a new footing—medical practitioners in the more remote country districts had been accustomed to supplement their incomes by the sale of patent and other medicines, and even of sundries, such as feeding-bottles and the like. The Act alluded to put a stop to this traffic. Medical practitioners were restricted to dispensing their own prescriptions, and for this privilege were compelled to pay a licence of the same amount as that issued to properly qualified chemists. This restriction has given rise to much agitation on the part of the medicos. The point at issue still awaits final solution, but it seems possible that a compromise may be effected by Government between the two parties.

Meanwhile the Pharmacy Board and the Medical Council have joined issue, and much ill feeling has been engendered between the two bodies. The Medical Council enjoy the advantage that one of their members is also a member of the Pharmacy Board (in the guise of Government nominee), while the Medical Council is, of course, exclusively composed of medical men. Not unnaturally pharmacists object to entertain an avowed opponent, who may carry information of their movements into the opposite camp. It would require a fresh Act of Parliament, however, to turn out the medical interloper, and the chances of redress in this matter are very slight.

Both parties to this pretty quarrel have been bringing their guns to bear on the Government, who are now in possession of all that can be said on either side. The great difficulty is that there are so many country settlements too small to support a pharmacist, where a drug-selling medical man is almost a necessity. Perhaps a solution of the difficulty may be found in some arrangement whereby country doctors may sell anything that may happen to be in request so long as there is no chemist in the same village, and on the understanding that he is to shut up shop and confine himself to dispensing his own prescriptions as soon as one opens in the particular locality.

The difficulty between doctors and chemists in reference to dispensing has been settled. In the House of Assembly, a day or two ago, while the Licences and Stamps Bill was under consideration in Committee, the whole question was threshed out, the result being the adoption of the following clause:—"That any medical practitioner admitted to practise under the Medical and Pharmacy Act, 1891, shall be entitled under such licence to carry on the business of a chemist and druggist in any village or town in which there shall be no licensed chemist and druggist." The discussion showed that the Medical Council is at issue with many members of its own profession in endeavouring to put doctors on the same footing as qualified pharmacists. Mr. Juta, the minister in charge of the measure, explained that, in drafting the clause, his object had solely been to consult the interests of the public. He mentioned that there were some 60 towns and villages in the colony where no chemists carried on business, and unless medical practitioners were permitted in such places to sell medicines the public would be exposed to grave inconvenience. Dr. Berry threw over his colleagues of the Medical Council, and expressed his concurrence with the view taken by the Pharmacy Board. This speaker, who has himself practised up-country for 30 years, expressed surprise that inconvenience had arisen from the existing state of things. Sir Gordon Sprigg pointed out that the public did not want to consult a doctor for every trifling ailment, but required a druggist's shop where they could go and get their shillingsworth of stuff. Dr. Berry replied that medical men required no monopoly, but no self-respecting practitioner would care to open a shop, as the clause permitted him to do, unless he employed a properly qualified assistant. Dr. Smart thought it would be most reprehensible to encourage a class of men who, side by side with the practice of medicine, carried on a retail trade as druggist. Dr. Vanes took the view that in cases of emergency a doctor should be permitted to sell medicine. Dr. Water said medical practitioners had to pay the same licence as chemists, and why any disabilities should attach to them he failed to understand. Pharmacists may, on the whole, congratulate themselves on the ending of the controversy, as probably no more will now be heard of the alleged right of country doctors to full dispensing privileges under all circumstances.

INDIAN LETTER.

Bombay, July 16.

A new and handsomely-fitted pharmacy has been started in Poona by Mr. David Robb, pharmaceutical chemist, under the title of D. Robb & Co. Mr. Robb has had considerable pharmaceutical experience both at home and here. A curious typographical error appeared the other day in an advertisement of this firm's aërated waters, in which a new beverage appeared under the title of "Hope Ale." A wag suggested the insertion of the words "Band of" in front of this.

The annual contract for drugs, instruments, and apparatus for the Baroda State Medical Stores has been carried off this year by Messrs. Phillips & Co., of Bombay. This is always a "big thing," and as several of the best-known London houses had sent in tenders, the credit is so much the greater to the local firm.

Exchange is still the bugbear of business men in the East. It shows no signs of improvement. The 5-per-cent. import-duty, recently re-imposed, does not meet with much opposition, as it tends to lessen the importation of goods directly by private persons, and puts such importation more completely in the hands of tradesmen, who by paying duty on the wholesale price, are able to sell the goods cheaper than they could be imported at privately. Moreover, the small shopkeepers, who are nearly all natives, and who cannot afford to go to the Customs, rupees in hand, to clear their goods, are forced to buy more largely from wholesale houses in this country, while in other ways local business is encouraged.

One effect of low exchange is seen in the drug-bazaars, where prices are rising to an almost unprecedented extent. Merchants refuse to buy goods from England, waiting on in the faint hope that things may improve, and the holders of stock, which is becoming daily more scarce, are raising their prices accordingly. Thus an unusual state of things prevails. Many well-known articles are not obtainable, and others only at rates higher than those of retail European houses.

One of our medical men here has recently received distinguished honour. Dr. T. Blaney came to India in 1836. His extensive practice has not checked a keen interest in municipal affairs, and his kindness and generosity have endeared him to the native community, whose confidence he possesses. The title of C.I.E. has already been bestowed on him, and recently his statue, in marble, has been unveiled in this city. Dr. Blaney combines the qualities of an experienced physician with those of an energetic "city father" and shrewd business man, and well deserves the honours showered upon him.

What's in a Name?—The sign, "Fine toilet soap, 5 cents," for months hung on a wall; the ladies came and went each day; but no soap bought at all. The sign was changed: "Complexion soap, price 50 cents per cake." The dealer in the next two weeks a fortune small did make.

"My babies was always healthy," said the old settler "Ye see, I used to tie a convenient-sized piece of bacon to a string, fasten it to a rafter, so's 'twould hang about a foot above the floor. Baby would crawl up to it, suck at it a spell, swallow it, back off, pull the bacon out, an' then go at it agin. Kep 'em well greased inside, ye see, an' tuffer'n pine knots."

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Editorial Comments.

THE NEW CUSTOMS' TARIFF OF THE UNITED STATES.

Somewhat unexpectedly at last the Tariff Bill, which has caused such bitter controversy in the United States for a year past, was on Monday last adopted, after a long conference between the two Houses, almost in the form in which the Senate had remoulded it. The M'Kinley tariff, which the new measure replaces, enacted so extravagant a species of protection that it did more in a few months to convince the disinterested section of the American population of the essential selfishness of such a policy than any other factor that has ever worked on American politics. Reckoning from the poll in 1892, it seemed that the nation had been converted to faith in free trade. Assuredly when that result does come, as come it must, Mr. M'Kinley's right to a statue, as one of the leading apostles of the movement, will be incontrovertible. But the interests at stake were far too vast and too powerful to be swamped by a single wave of public opinion. The monopolists fought for their privileges with the vigour which only an attack on vested interests can call forth; and to a great extent they have succeeded in averting the threatened catastrophe. The Bill is no longer a free-trade measure in any sense; protection is still rampant in every industry in America; and unless the conversion of the nation was much deeper than we take it to have been, the probability is that the present compromise will last over, at least, the present and the next Administration.

But it is a great advantage to have got to anything definite. Much, or little, or no protection are questions for the Americans to thresh out in controversy, but trade cannot go on steadily so long as it is doubtful what the artificial price of an article may be next week. Orders in suspense will now be confirmed, and if a more healthy internal tone has been reached in American commercial circles, as it may be hoped is the case, the first movement will give an impulse which will start business of every kind. And the demands of sixty millions of people make an impression on every market in the world, so that the anticipation that last Monday's decision will give an impetus to trade here and elsewhere is very likely to be realised. Moreover it is to be remembered that the modifications of the tariff, though not what were at first looked for, are in many cases substantial. For instance, the duties on the great metal products are reduced by about one-third, sometimes to nearly one-half what they now stand at. In glass, earthenware, and cotton goods the reductions are on somewhat the same scale, and in woollen goods they are much greater—in shawls, for example, from 136 to 35 per cent. These changes must have a great effect on our commerce with America, and will tell indirectly as well as directly.

The duties on medicines, drugs, and chemicals are compared in detail in a table we publish elsewhere. The reduction of duty on the heavy chemicals—on soda, for instance, from 1c. to ½c. per lb.—will probably have a considerable effect on our alkali-trade; but the reductions on the finer chemicals, though they are general, and in many cases appear large, will probably have very small results. Twenty-five per cent. should be as effective as a protective duty as 50 per cent., if American chemical-works are at all capable of competing with their European rivals, and the reduction of duty on medicinal chemicals not likely to be made in America will have no effect on external trade. On the whole we do not perceive that the new tariff can have any particular effect on the drug-trade pure and simple. The 25-per-cent. duty on medicinal preparations generally is maintained. But there will be openings in sundries. The reductions on toilet-articles, brushes, ivory goods, probably on soap (which is changed from a fixed to an *ad valorem* duty), and on glass and earthenware goods, though slight, will suffice to extend the trade; for these goods of European manufacture some Americans will buy at any price, and a great many more will buy them if the cost is reduced. The results of the new tariff will soon be seen, and taking it all round we are convinced it must develop British trade with the United States, appreciably if not considerably.

A NEW CONSTITUENT OF THE AIR.

The paper which will probably render the British Association meeting of 1894 for ever memorable, was the one contributed by Lord Rayleigh, who announced that he, in conjunction with Professor Ramsay, of University College, London, had succeeded in obtaining from atmospheric air an inert gas which did not possess the properties of nitrogen. This, if it should be established, is a most startling discovery, and fuller investigation will be awaited with extreme interest.

For generations chemists have assumed with confidence that they had learned all that could be known about the constitution of the air, and they have only been hoping to find something new in the way of an element by ransacking the most inaccessible corners of the bowels of the earth. Yet all this time they have been in actual contact with a substance the individuality of which they have never before suspected, but which there is some reason to believe will prove to be a hitherto unrecognised element, the place and purpose of which in our universe it will be a most attractive task to investigate. It would appear that, in repeating Cavendish's well-known experiment on the formation of nitric acid by the direct union of the oxygen and nitrogen of the air under the influence of the electric spark, the discoverers obtained a residual gas which differed from the nitrogen present in not combining with the oxygen. This was shown by allowing the sparking to take place in a tube over potash, which absorbs any oxides of nitrogen as soon as they are formed. Another method of obtaining the same gas consists in passing atmospheric air free from impurities over heated magnesium. This metal absorbs both nitrogen and oxygen, and should therefore entirely absorb the air, provided sufficient time for the reaction be permitted. On trying the experiment, however, several times, they always found that a gas remained, amounting to about 1 per cent. of the nitrogen, which could not be absorbed under any conditions. At present only a few cubic centimetres of this remarkable air have been obtained, so that the authors are still in considerable doubt as to its exact nature. Density determinations of the gas have, however, been made, and it is proved that in this respect at least it differs from both nitrogen and oxygen, being much heavier than either. In one experiment the density 19·09 was obtained, but the authors believe that as the research proceeds they will be able to obtain a purer gas with even a higher density.

The authors at this stage of their work wisely refrain from any speculations as to the nature of the gas, but the physicists and chemists present at the meeting were full of suggestions as to its real nature. The President (Professor Dixon) went so far as to indicate that the discovery was perhaps the most interesting one of the century; and Sir Henry Roscoe pointed out that if it turned out to be a missing element, it showed that the labours of the physicist in determining physical constants with great precision was thus coming to the aid of the chemist in a very remarkable manner. Professor Emerson Reynolds opined that there was no reason why the gas should not be elementary in character, seeing that the Mendeléeff law predicted missing elements between fluorine with an atomic weight 19 and sodium with an atomic weight 23. All this is, of course, subject for further work; but the interest is heightened by the observation that in the spectroscopic examination of the gas announced by Lord Rayleigh blue lines which cannot be connoted to nitrogen have been noticed. Professor Lodge facetiously suggested that the authors had not discovered the name of the new body, and Rayleium and Britannium were suggested as suitable. Of course it may, after all, turn out that the gas is simply an allotropic modification of nitrogen in a condensed form analogous to ozone. If, for example, its formula were N_3, then the density of the gas would be 21—a number not very remote from that which the distinguished experimenters have found for their impure substance. Further work, in reference to this body may throw light on many unexplained problems, notably that suggested by Professor Chandler Roberts-Austen, who thought that the hardening of steel, which is due in some way to the influence of the nitrogen of the air, might be caused by the presence of this inert ingredient of the atmosphere.

The latest contribution to the discussion of this possible new element is a letter from Professor Dewar to the *Times*. Professor Dewar points out that no mention is made in the report of the evidence of the existence of such a body drawn from well-known phenomena occurring during the liquefaction of air. At a temperature of −200° C., air and every gaseous substance, elemental or compound, at present known become liquid or solid under such conditions. When air is liquefied it appears as a fluid containing more or less of a white deposit, due to the solidification of carbonic acid and other gaseous impurities, which float in the transparent liquid oxygen and nitrogen. Is Lord Rayleigh's "new nitrogen" (as Professor Dewar calls it) a part of the solidified substance? If not, then the gas must liquefy along with the nitrogen and oxygen and be approximately equal in volatility with one or the other. But the white substance certainly does not amount to 1 per cent. of the liquid, and whenever the Professor has casually examined it the substance has turned out to be a mixture of nitrous oxide, carbonic acid, and some other impurity. Therefore the amount of unknown substance must be extremely small. If the new nitrogen is present to the extent of ½ to 1 per cent, and has a density of about 19, then it is indeed, a strange substance, being as volatile as nitrogen or oxygen, and, therefore, not capable of separation by difference of boiling-point. These facts, Professor Dewar adds, in no way detract from the interest of Lord Rayleigh's discovery; they only add some additional interest to the subject, and may suggest some queries to be answered by further investigation.

WORDS OF THE WISE.

The Presidents of Sections of the British Association get, perhaps, hardly their fair share of glory. The supreme chief takes more than the lion's share. He gets reported in the daily papers in full, and generally he is merciless in his power. Lord Salisbury's address occupied much less than a page of the *Times*, but several Presidents in recent years have laid waste two or three columns beyond that ample allowance. The typical newspaper-reader has been surfeited with science by that single dose, the editor knows his business, and consequently the sub-presidents' orations, many of which have been elaborated with loving care and anticipations of immortality, have been dealt with in the barest outline in all the public journals. They are enshrined some time after in the volume of the Association's transactions, and the next President coaches himself up in his predecessor's discourse with the view of doing something better. Whether anybody else ever reads the production is doubtful.

All these addresses are too long. There is not one of them this year that could be printed in four of these pages, and some would occupy seven or eight. Our space gives us the opportunity of doing little more than merely mentioning the subjects treated.

In Section A (mathematics and physics) Professor A. W. Rücker based his address principally on some reflections suggested by the magnetic survey of the United Kingdom, on which he and Dr. Thorpe have been engaged for the past ten years. The general record of that survey is about to be published, therefore the facts ascertained were not given. The principal point brought before the Section was a consideration of the extreme importance of frequently and carefully testing the magnetometers employed with the standard instruments in use at Kew and Greenwich.

The Chemical Section was presided over by Professor H. B. Dixon, of Owens College, Manchester, whose address took the form of an historical sketch of the "Oxford school of chemists" of two and a half centuries ago, which consisted of Robert Boyle, Robert Hooke, and John Mayow. The clear perceptions of many of the modern facts of chemistry especially in relation to the atmosphere and to combustion, of which this famous trio gave evidence by their works, were pointed out, and the President showed what a chance was then offered for the establishment of a real school of chemistry at Oxford. But the opportunity was not taken advantage of. Boyle left Oxford in 1668. Mayow died in 1679. In 1683 Anthony Wood informs us that "the Oxford laboratory was quite finished," but the impulse given to the study of chemistry in Oxford gradually died out. Richard Frewin, of Christ Church, is described as professor of chemistry in 1708. He does not seem to have taken himself too seriously in this capacity. Uffenbach, who visited Oxford in 1710, says he found the stoves in fair condition, but everything else in the laboratory in dirt and disorder. For a companion picture to this mention was made of the appointment in 1764 of Richard Watson (afterwards Bishop of Llandaff) to the chair of chemistry at Cambridge, which had been founded in 1702. Dr. Watson, we are told, knew nothing at all of chemistry; had never read a syllable nor seen a single experiment on the subject. On his election he sent to Paris for an "operator," and set to work in his laboratory. In fourteen months he began to lecture to a large audience. But Watson at Cambridge was succeeded by Wollaston. Oxford had to wait till Brodie for a successor to Boyle.

Section C is Geology. The President, Mr. L. Fletcher, is a mineralogist, and his science, as he reminded his audience, has been largely taken possession of by chemists, and during the sixty-three years of the existence of the Association only once previously has a mineralogist been seated in the presidential chair of the Geological Section. The fathers of the Geological Society treated mineralogy more respectfully. They defined their sole object to be "the investigation of the mineral structure of the earth"; and in the first half of this century the relationship of mineralogy and geology was so intimate that it was possible for a section of the British Museum to be officially designated "The Department of Mineralogy, including Geology." Mr. Fletcher's address was a very technical treatise on systems of crystallisation, which it would be impossible to make clear except at great length, and we must therefore pass it by.

Section D (Biology) has always been troublesome, both to itself and to the Association generally; and it appears to have been once more in the throes of a revolution, the result of which has been that animal physiology, like anthropology a few years ago, has split off from the rest, and has formed a Section to itself. The physiologists wanted to carry with them the plant-physiologists, but the botanists objected to be vivisected in this manner. They declined to discuss the physiology of plants in one Section, and morphology in another, and they therefore remained faithful to the mother Section, and one of their high priests, Professor Bayley Balfour, is this year its President. He gave a useful address on forestry. There are no intrinsic circumstances in the country, says the Professor, to prevent our growing trees as a profitable crop for timber as well as our neighbours. On the contrary. Great Britain is specially well adapted for tree-growing. Nowhere in the world, probably, are to be found finer specimens of tree-growth. As aboriculturists we are unrivalled. But the growing of trees for effect and in plantations is a very different matter from their cultivation on scientific principles, for the purpose of yielding profitable crops. With an acreage of wooded land amounting to only 4 per cent. of their total area, Great Britain and Ireland possess a smaller proportion so covered than any other European country. In France the percentage rises to 15, whilst in Sweden the amount is over 40 per cent. The United States is estimated to have about 25 per cent. The profit from timber-cultivation varies, but it must always be borne in mind that timber land is land which can yield no agricultural rent. From its two million acres of forest area Bavaria draws a little over five shillings per acre per annum; Wurtemburg, with nearly half a million acres, gets a return of about eleven shillings; and Saxony, with a somewhat less area, receives over seventeen shillings per acre per annum. Our State forests result in a loss. Mr. Munro-Ferguson, M.P., has furnished Professor Balfour with details of an experiment of his own. A pine and larch wood at Novar, in Ross-shire, twenty-four acres in extent, was clean cut in 1883. After sixty-one years' growth on land similar to that which in the neighbourhood yields a grazing-rent of from one to two shillings per acre, it is found to have yielded a net sum equal to a revenue to the landlord during the whole period of its growth of over nine shillings per acre per annum. This shows how profitable waste land may become under timber. The conclusion drawn from these observations is that the State should take up this subject, the Department of Agriculture particularly, and that forestry should be taught on scientific principles.

The Geographical Section is always a popular one. The address by the President, Captain Wharton, consisted of a very interesting collection of facts in relation to the oceans of the world. Water fills fourteen times as much of the globe's surface as dry land. The whole area of our dry land would only fill up one-third of the Atlantic Ocean, and the

Atlantic is just about half the size of the Pacific. No drop of the ocean, even at its greatest depth, is ever for one moment at rest; but the surface currents are caused originally by the great winds which blow generally from the same general quarter over vast areas. The configuration of the land and many circumstances occasion the subsequent direction of these currents. Though vast areas of ocean remain unsounded, it is not believed that there is actually any unfathomable sea. It is very remarkable, and from a geological point of view significant, that the very deepest parts of the ocean are not in or near their centres, but in all cases are very near land. One hundred and ten miles outside the Kurile Islands, which stretch from the northern point of Japan to the north-east, the deepest sounding has been obtained of 4,655 fathoms, or 27,930 feet. With a few exceptions, the depth of the oceans, so far as yet known, nowhere comes up to 4,000 fathoms. Storms arise in parts of the ocean, where from various causes the water is subject to great differences of surface temperature. It is in the region south of Nova Scotia and Newfoundland many of the storms which travel over the Atlantic to this country have their rise. The height to which storm waves may rise has never been very satisfactorily determined. It is but rarely that any individual sees really abnormal waves, even though he may be at sea all his life. Different heights for what are called maximum waves have been recorded, and they vary from 40 to 90 feet from crest to hollow. The most probable figure is about 50 or 60 feet. These great storm waves travel very far. In some cases they convey a warning, as their velocity always far exceeds that at which the storm is travelling. In others they intimate that a gale of which no more is seen has occurred somewhere—it may be many miles distant. These are only a few specimens quoted from a lengthy series of facts ascertained in the course of the marine surveys which are always being undertaken by maritime nations.

The address of Professor C. F. Bastable to the Section of Economic Science was a very dispassionate review of the changes in opinion which have come over the study since the Section was presided over by Nassau W. Senior at Oxford in 1860. The economic thinkers of that day had no doubt at all of the accuracy of their deductions. "The recognised principles of political economy" or "the immutable laws of supply and demand" were phrases that occurred as readily to a journalist in the sixties as "the exploded doctrine of *laisser faire*" does to the leader-writer of to-day. The scientific doctrine of the economist applied to practice became the guiding rule of the practical man of business. Its influence on legislation is strikingly shown by two important triumphs gained in that very year (1860). The first and most enduring was the full and complete establishment of free trade as the basis of the fiscal policy of the United Kingdom by the Budget measures of the year; the second, though transient, effect was the declaration, in Cardwell's Irish Land Act, that tenancies should rest "on contract and not on tenure," so that the relation between letters and hirers of land was released, so far as legislation could secure that result, from all influence of sentiment or custom. Dr. Bastable traced the gradual changes of views particularly to (1) the influence of foreign, and chiefly German, workers in the same field; (2) the profound though peaceful political revolution by which power has been transferred to the working classes; and (3) the growth of the doctrine of evolution, which has been perhaps more potent in its effects on the social than even on the biological sciences.

Professor Kennedy, who presided over the Mechanical Science Section, discoursed on "The Critical Side of Mechanical Training." The argument developed was that one of the chief points to be considered in the training for an engineer was the cultivation of the critical faculty. In almost every department of mechanical study in a physical laboratory the conditions of each experiment are under the control of the experimenter, and are subservient to the experiment itself. In an engineering laboratory the conditions form part of the experiment. However much more difficult or complicated they render it, they still unavoidably form part of it—an experiment under any other conditions, or with those conditions removed, would *ipso facto* be irrelevant.

Sir W. H. Flower, as President of the Anthropological Section, commented on the great importance of the study of the various races of humanity, especially to a nation like this, whose subjects are of so many varieties. But notwithstanding its importance, he complained that it received but very meagre support. The Anthropological Society only numbers 305 members, and there are, he darkly hinted, even members of the House of Commons who have not fully acquainted themselves with all the mysteries of the science.

Professor Schäfer, as President of the Physiological Section, had to explain the resuscitation of the Section in an independent form. This is due, it appears, to the labours and agitations of the anti-vivisectionists, whose efforts, the President somewhat inconsistently declares, "have hitherto met with no measure of success, except that they have to a certain extent hampered the full development of the science by diverting to its defence some of the energy which might be devoted to its pursuit." Does this mean that if it had not been for these troublesome anti-vivisectionists we should have slain many more rabbits and frogs and dogs? But, if so, how can it be said that the movement has met with no measure of success?

THE TREATMENT OF DIPHTHERIA.

In an editorial article entitled "De Re Nova," published in our issue of July 14, we gave some account of a remedy which has lately been introduced for the prevention and cure of the above disease. The remedy is one of the Pasteurian type, and goes by the name of "Antitoxin." It was discovered last year by Aronson, who prepared it from the blood of dogs immunised against diphtheria. It is said to be not merely of use as a prophylactic, but to be also of value after the onset of the disease. The *Therapist* this week gives some account of its use in the treatment of the disease with statistics obtained from the German Hospital where it has been employed, and where it is claimed that in five months the mortality from the disease has been reduced 41 per cent. to 16·5 per cent. Cases where it has been successfully employed in this country are also quoted. We hear from Messrs. A. & M. Zimmerman, who are agents for the preparation, that the supply has run short, owing to the length of time and the difficulty of preparing the substance in a fit state for hypodermic injection. Apparently, it takes from six to twelve months to prepare any quantity. Aronson prepared it first of all from sheep and dogs, and had difficulty in obtaining it in a dry form, which he considered would be most suitable for administration. Since that time he has found that the blood-serum could be used without drying. He has also attempted successfully to increase the potency of the remedy, by first increasing the virulence of the diphtherite bacillus by successive cultivations on bouillon. It is now being prepared from the blood of the horse, whence it is obtained in larger quantities, and at the same time is found to be more powerful and effective.

Realism.—Teacher: "What did Cæsar say when Brutus stabbed him?" Bright boy: "Ouch!"

THE UNITED STATES TARIFF.

We give below as nearly, as can be at present ascertained, the duties on drugs, chemicals, and other goods dealt in by druggists as fixed by the Tariff Bill which has just been adopted by the Conference between the Senate and the Congress in Washington, and will become law on August 25, or earlier if the Bill is signed by the President. We quote these from the Bill as it left the Senate. There may have been some modifications made since, but substantially we believe the table as we give it is correct:—

—	Present duty	Future duty
DRUGS AND CHEMICALS.		
Acetic or pyroligneous acid	1½c. to 4c. per lb.	20 p.c.
Boracic acid	5c. per lb.	2c. per lb.
Chromic acid	6c. „	4c. „
Citric acid	10c. „	25 p.c.
Tannic acid or tannin	75c. „	60c. per lb.
Tartaric acid	10c. „	20 p.c.
Alcoholic perfumery, including Cologne water and other toilet waters, and alcoholic compounds not specially provided for	$2 per gal. and 50 p.c. to $2 per gal. and 25 p.c.	$2 per gal. and 50 p.c.
Alumina, alum, alum cake, patent alum, sulphate of alumina and aluminous cake, and alum in crystals or ground	9/10c. per lb.	4/10c. per lb.
Ammonia, carbonate of, muriate of, or sal ammoniac, sulphate of	½c. to 1¾c. per lb.	20 and 10 and 20 p.c.
Blacking of all kinds..	25 p.c.	20 p.c.
Borax, crude, or borate of soda, or borate of lime, refined borax	3c. to 5c. per lb.	1c. to 2c. per lb.
Camphor, refined	4c. per lb.	10 p.c.
Chalk, prepared, precipitated, French, red, and all other chalk preparations not specially provided for	20 p.c.	20 p.c.
Chloral hydrate	50c. per lb.	25 „
Chloroform	25c. „	25c. per lb.
All coal tar colours or dyes, by whatever name known, and not specially provided for	35 p.c.	25 p.c.
Cobalt, oxide of	30c. per lb.	25c. per lb.
Collodion and all compounds of pyroxyline	60c. per lb. to 25 p.c.	40c. and 50c. per lb. to 45 p.c.
Quicksilver	10c. per lb.	7c. per lb.
Colouring for liquors..	50 p.c.	50 p.c.
Drugs, such as barks, beans, berries, balsams, bulbs, bulbous roots, excrescences, fruits, flowers, dried fibres, dried insects, grains, gums and gum resin, herbs, leaves, lichens, mosses, nuts, roots and stems, spices, vegetables, seeds aromatic (not garden seeds), seeds of morbid growth, woods, and woods used expressly for dyeing; any of the foregoing drugs which are not edible, advanced in value or condition by refining or grinding ..	10 p.c.	10 p.c.
Extracts and decoctions of logwood and other dyewoods, extract of sumac ..	⅞c. per lb.	10 „
Extract of hemlock-bark	½c. „	10 „
Sulphuric ether	40c. „	40c. per lb.
Spirit of nitrous ether	25c. „	25c. „
Fruit ethers or essences	$2.50 „	$2.00 „
Ethers not provided for	$1.00 „	$1.00 „
Gelatine, glue, isinglass or fish glue, and fish sounds	½c. per lb and 25 to 30 p.c.	25 p.c.
Glycerine, crude and refined	1¾c. to 4½c. per lb.	1c. to 3c. per lb.
Ink, ink-powders, and printers' inks ..	30 p.c.	25 p.c.
Iodoform	$1.50 per lb.	$1.00 per lb.
Liquorice, extracts of, in paste, rolls, or other forms	5½c. „	5c. „
Morphia, and all salts thereof	50c. per oz.	50c. per oz.
Magnesia, carbonate of	4c. per lb.	3c. per lb.
Magnesia, calcined	8c. „	7c. „
Magnesia, sulphate of	3/10c. „	½c. „
Opium, aqueous extract of, for medicinal uses, and tincture of, is laudanum ..	40 p.c.	20 p.c.
Opium, containing less than 9 per cent. of morphia, and opium prepared for smoking	$12 per lb.	$6 per lb.
MEDICINAL PREPARATIONS.		
All medicinal preparations of which alcohol is a component part, or in the preparation of which alcohol is used, not provided for in this Act	50c. per lb.	50c. per lb.
All medicinal preparations, not specially provided for in this Act	25 p.c.	25 p.c.
Alkalies, alkaloids, distilled oils, essential oils, expressed oils, rendered oils, and all combinations not specially provided for	25 „	25 „

—	Present duty	Future duty
MEDICINAL PREPARATIONS (*cont.*)		
Cosmetics, dentifrices, pastes, pomades, powders, and all toilet preparations and articles of perfumery not specially provided for	50 p.c.	40 p.c.
Santonine, and all salts thereof containing 80 per cent. or over of santonine ..	$2.50 per lb.	$1.00 per lb.
Phosphorus	20c. „	15c. „
POTASH.		
Bichromate and chromate of	3c. per lb.	25 p.c.
Hyoriodate, iodide and iodate of	50c. „	25c. per lb.
Nitrate of, or saltpetre, refined	1c. „	½c. „
Prussiate of, red or yellow	5c. to 10c. per lb.	25 p.c.
OILS.		
Alizarine assistant, or Turkey oil	40c. to 80c. per gal. to 30 p.c.	30 p.c.
Castor oil	80c. per gal.	35c. per gal.
Cod-liver oil	50c. „	20 p.c.
Linseed and poppy-seed oil, raw, boiled or oxidised	32c. „	20c. per gal.
Fusel oil, or amylic alcohol	10 p.c.	10 p.c.
Hemp-seed oil and rope-seed oil	10c. per gal.	10c. per gal.
Olive oil, fit for salad purposes	35c. „	35c. „
Peppermint oil	80c. „	25 p.c.
Seal, herring, whale, and other fish oil ..	8c. „	25 „
PAINTS, COLOURS, AND VARNISHES.		
Baryta, sulphate of, or barytes, manufactured	$1.12 to $6.72 per ton	$3.00 per ton
Blues, such as Berlin, Prussian, Chinese ..	6c. per lb.	6c. per lb.
Blanc-fixe, or artificial sulphate of barytes, and satin white, or artificial sulphate of lime	¾c. „	25 p.c.
Black, made from bone, ivory, or vegetable	25 p.c.	20 „
Paris green and Loudon purple		12½ „
Chrome yellow, chrome green, and other chromium colours	4½c. per lb.	3c. per lb.
Ochre and ochery earths, sienna and sienna earths, umber and umber earths, ground in oil	¼c. to 1½c. per lb.	1¼c. „
Ultramarine blue, whether dry, in pulp, or mixed with water, and wash blue containing ultramarine	4½c. per lb.	3c. „
Varnishes, including so-called gold size or japan, and on spirit varnishes for the alcohol contained therein..	35 p.c. to 35 p.c., and $1.32 per gal.	25 p.c. to 25 p.c., and $1.32 per gal.
Vermilion red, and other colours containing quicksilver, dry or ground, in oil or water, and vermilion red not containing quicksilver, but made of lead or containing lead	12c. per lb.	20 p.c. to 6c. per lb.
Whiting and Paris white	3c. „	½c. to ½c. per lb.
Zinc, oxide of, and white zinc paint or pigment, dry or ground in oil	1¼c. to 1¾c. per lb.	1c. per lb.
All other paints, colours, and pigments, whether dry or mixed, or ground in water or oil, or other solutions, including tubes, lakes, crayons, smalts, and frostings, and not specially provided for	25 p.c. to 30 p.c.	25 p.c.
LEAD PRODUCTS.		
Acetate of lead..	3½c. to 5½c. per lb.	1½c. to 2¾c. per lb.
Litharge	3c. per lb.	1½c. per lb.
Nitrate of lead..	3c. „	1½c. „
Orange mineral	3½c. „	1¾c. „
Red lead..	3c. „	1½c. „
White lead, and white paint and pigment containing lead, dry or in pulp, or ground or mixed with oil..	3c. „	1½c. „
SODA, &c.		
Bicarbonate of soda	1c. „	½c. „
Hydrate of, or caustic soda	1c. „	½c. „
Bichromate and chromate of	3c. „	25 p.c.
Sal soda, or soda ash	¼c. „	⅛c. to ¼c. per lb.
Silicate of soda..	¼c. „	⅜c. per lb.
Sponges	20 p.c.	10 p.c.
Strychnia, and all salts thereof	40c. per oz.	30c. per oz.
Sulphur, sublimed, refined, or flowers of ..	$8 to $10 per ton	20 p.c.
Sumac, ground	4/10c. per lb.	10 „
Tartar, cream of, and patent tartar ..	6c. „	20 „
Tartars and lees crystals, partly refined ..	4c. „	20 „
Rochelle salts	3c. „	2c. per lb.
SOAP.		
Castile	1½c. „	20 p.c.
Fancy perfumed	15c. „	35 „
Medicinal	15c. „	35 „
Not provided for	20 p.c.	10 „

—	Present duty	Future duty
SUGAR.		
Raw	Free	40 p.c.
Refined	$\frac{1}{10}$c. per lb. above No. 16	40 p.c., $\frac{1}{4}$c. per lb.
Sugar candy and all confectionery, made wholly or in part of sugar	5c. per lb.	35 p.c.
Saccharine		25 „
Glucose, or grape sugar	$\frac{3}{4}$c. „	15 „
SEEDS.		
Castor beans or seeds..	50c. per bush.	25c. per bush.
Flaxseed or linseed, poppy-seed, and other oil seeds, not specially provided for ..	30c. „	20c. „
Garden seeds, agricultural seeds, and other seeds, not specially provided for	20 p.c.	10 p.c.
MISCELLANEOUS.		
Chicory-root, burnt or roasted, ground or granulated	2c. per lb.	2c. per lb.
Cocoa, prepared or manufactured; chocolate, sweetened	2c. „	2c. „ and 35 p.c.
Cocoa butter or cocoa butterine	$3\frac{1}{2}$c. „	$3\frac{1}{2}$c. per lb.
Dandelion-root and acorns, prepared, and other articles used as coffee, or as substitutes	$1\frac{1}{2}$c. „	$1\frac{1}{2}$c. „
Starch, including all preparations, from whatever substance prounced	2c. „	$1\frac{1}{2}$c. „
Dextrine, burnt starch, gum substitute, or British gum	$1\frac{1}{2}$c. „	$1\frac{1}{2}$c. „
Mustard, ground or preserved, in bottles or otherwise	10c. „	25 p.c.
Spices, ground or powdered, not specially provided for: capsicum or red pepper, unground, and sage	4c., $2\frac{1}{2}$c., to 3c. per lb.	3c., $2\frac{1}{2}$c., to 1c. per lb.
Vinegar..	$1\frac{1}{2}$c. per gal.	$7\frac{1}{2}$c. per gal.
Malt extract, fluid, in casks, in bottles, or jugs, solid or condensed	20c. to 40c. per gal. and 40 p.c.	15c. to 30c. per gal. and 30 p.c.
Corks, wholly or partially manufactured..	10c. to 15c. per lb.	10c. per lb.
Matches of all descriptions	10c. per gross to 1c. per 1,000	20 p.c.

The free list is almost the same as heretofore as far as this class of goods is concerned. It comprises nearly all crude drugs not especially named in the list quoted above. Epsom salts and copperas (both hitherto charged with a duty of $\frac{3}{10}$c. per lb.) are to be free, and medicinal coal-tar preparations and products of coal-tar not colours or dyes and not specially provided, are also now admitted to the free list. Ginger ale, ginger beer and all artificial mineral-waters are now to be charged at 20 per cent. *ad val.* Hitherto 13 cents. per dozen bottles (if not exceeding $\frac{3}{4}$ pint) was charged on ginger ale, ginger beer, lemonade, soda-water and similar waters. No additional duty is to to be levied on bottles.

Personalities.

Sir Spencer Wells has been elected an Honorary Fellow of the American Surgical Association.

Dr. S. Rideal, F.I.C., F.C.S., has been appointed Water Analyst to the Guildford Rural Sanitary Authority.

Mr. S. M. Burroughs (of Burroughs, Wellcome & Co., Snow Hill, E.C., and Dartford) has been elected President of the Dartford and West Kent Free Lecture Society.

Dr. Russell Reynolds, President of the Royal College of Physicians, has been elected to preside over the annual meeting of the British Medical Association to be held in London next year.

Mr. P. T. Dixon, one of the partners in the firm of Messrs. C. E. Gardner & Co., wholesale chemists, Port Elizabeth, has arrived in England, and can be addressed c/o Messrs. Walter Kemsley & Co., 44 Leadenhall Street, E.C.

Among the recipients of honorary degrees from the University of Halle on the occasion of the bicentenary of its foundation, celebrated last week, was Mr. Victor Horsley, on whom the honorary degree of "Doctor of Medicine" was conferred.

COUNTER-IRRITATION.—II.

The errand-boy stood on the window-case and softly hummed "'E dunno where 'e are." He is clever, that errand-boy, and his hum was astutely pitched just high enough to be satisfactorily irritating and not high enough to provoke a reasonable protest from an employer who likes to see his servant working cheerily.

When she came in, dressed in the profuse crapings of aggressive widowhood I forgot the hummer and, pulling down my cuffs, prepared to make the most of my customer. The early promise faded with closer observation of the subtle harmonies of her appearance; the seediness of her costume blent with the autumn of her years.

"Perhaps I had better state the whole of my case," she said, as she seated herself with a pained nervous start when she found the chair some inches lower than she expected. "I have had a great deal of trouble, and suffer very much from running-down of spirits." I had noticed a fiery odour in mortal combat with the acclimatised perfume of the pharmacy, and, understanding, nodded encouragingly.

"Since the death of my poor, dear husband, I have had great difficulty in making both ends meet." I remembered that the immortal Miller suggested that this was often caused by the too frequent endeavour to make one end drink, but contrived to look sympathetic.

"Well," she continued, "the strain and stress of life has been too much for me and has completely wrecked my nervous system, and I feel that I cannot go on in this way much longer."

"As well try," said I, "to play cricket on a flourishing turnip-field."

"My body," she said, "is one vast mass of palpitating nerves, and the slightest noise sets them in jarring vibration. Is there anything you can do for me?"

Just then, the errand-boy, airily elephantine, flicked at a harmless necessary fly on the window-pane, and after a too brief second's gesticulating poise, entered the window-case—without opening the door.

When I had disentangled him from the various knots into which he had tied himself with portions of my stock and fixtures and extracted a considerable part of three glass shelves from too receptive portions of his anatomy, I sent him downstairs to wring himself out. The liquids with which he had garnished himself were remarkable rather for their promiscuousness than their compatibility.

I took my customer from the arms of the attentive policeman, who had fanned and watered her into consciousness, and proposed a mixture.

"I cannot afford a mixture," she gasped. "Can you not cure me with a draught?"

I thought that nothing less than a gale would be of any use in so bad a case, but promised to try.

When the draught had gurgled to its resting-place, the black cotton glove, sticking stoutly to the lining, reversed an empty pocket. The purse, as is usual in these cases, had been overlooked in the hurry of leaving home, and its owner would call the first time she passed. The proposed price, too, was excessive, as she supposed I had given her little but water.

I passed. It is as useless to attempt to persuade some people that a chemist does not always sell water at a guinea a gallon as to convince others that a tragedy queen does not always drink bottled stout immediately the curtain has fallen on her death throes. I do not, nevertheless, doubt the veracity of so many quite respectable assistants I have known who, having stage-manager friends, obtain the information at first hand.

Benzoyl Quinine.—At the Paris Academy of Sciences, on Monday, M. Henri Moissan referred to a note by M. A. Wunsch on benzoyl quinine, to which attention has already been drawn by M. Schutzenberger. By treating chloride of benzoyl with very pure quinine, M. Wunsch has obtained what is described as a "crystalline precipitate of monochlorhydrate of benzoyl quinine." The aqueous solution of this compound gives, by treatment with ammonia, a precipitate having benzoyl as a base, which produces a good crystallisation in ether.

ROMAN ANTIQUITIES AT BRISTOL.

Entrance to Court.

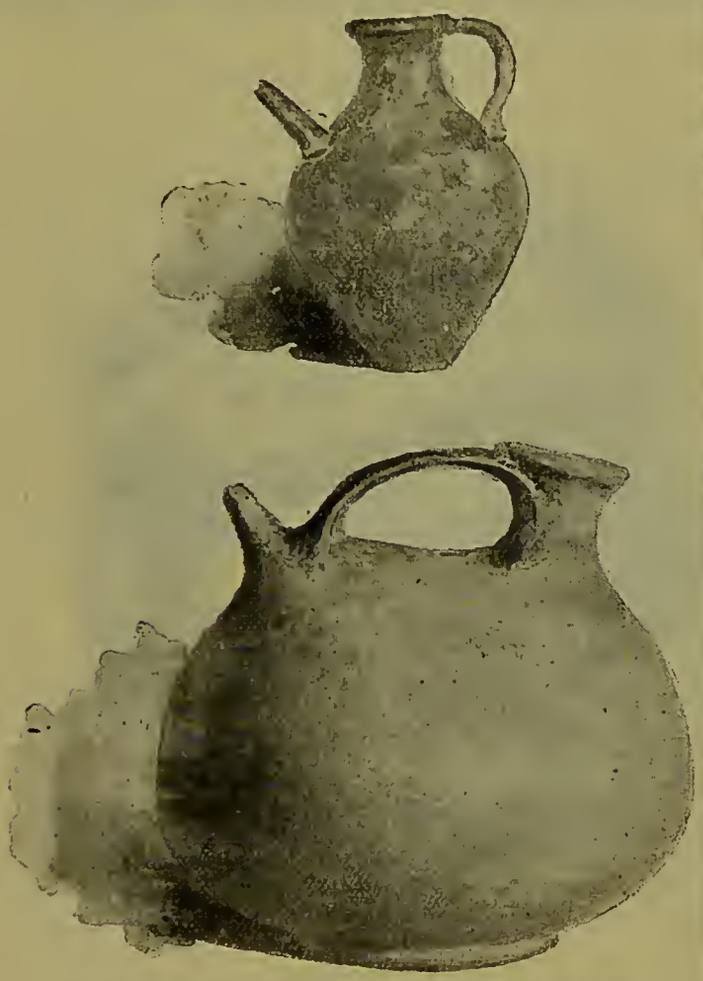
In our report of the "Annual Museum" held in connection with the meeting of the British Medical Association at Bristol, we referred casually to an exhibit, not of a purely business nature, which excited the liveliest interest among the medical visitors. It may, in fact, be said to have been the only collection corresponding to the generally-accepted sense of the word "museum" in the whole Exhibition, for it consisted of several hundred specimens of Roman surgical instruments, votive offerings, and general pharmaceutical accessories, mostly dating from the pre-Christian era and the first century. Mr. William Oppenheimer, Chairman of the firm of Oppenheimer, Son & Co. (Limited), when attending the International Medical Congress in Rome a few months ago, was much impressed with the interest of the collection which was there on view, and opened negotiations on the spot for the purpose of bringing it under the notice of a larger number of British medical men than had an opportunity of inspecting it there. To obtain the consent of the Italian authorities for the removal of the collection outside the Peninsula was no easy matter, for the Italians do not now encourage the exportation of their national relics. In this instance, however, Mr. Oppenheimer's efforts were successful, and a few days before the B.M.A. meeting the collection arrived, in charge of Dr. Luigi Sambon, a medical man who holds an official position under the Italian Government, and who has devoted much study to antiquarian therapeutical research.

At Bristol the collection occupied a room by itself, just by the main entrance to the drill-hall, and by the aid of a supply of handsome velvet drapery, a few showcases, some ferns, and a couple of improvised tables that apartment had been converted in the space of a few hours into a museum of the most genuine type. Mr. William Oppenheimer and Dr. Sambon were busy the evening before the opening of the Exhibition in unpacking and classifying the specimens, and our representative, in the course of half-an-hour's chat with the doctor, whose English is fluent, heard a good deal about the therapeutical knowledge of the Romans that was quite new to him.

Quite two-thirds of the collection consists of terra-cotta objects, mostly discoloured with age, but a few of them still bearing more or less plain traces of pigmentation. The objects are generally representations of parts of the human body—the head, hands, feet, teeth, &c.—and of internal organs, such as the heart, liver, and kidneys. One large red terra-cotta fragment represented an entire human trunk, opened so as to expose the heart, liver, stomach, and intestines. These objects were votive offerings, and were habitually purchased by patients suffering from some affection of the organ corresponding to that of which they acquired an effigy, for the purpose of placing at the shrine of some deity supposed to exercise the power of healing the affected member. The idea of thus propitiating supernatural powers survives among nominally Christian peoples to the present day, and is, perhaps, most strongly and unconsciously expressed by the Southern European nations, where the peasant, returning from the vintage, will habitually hang an offering of grapes upon the wayside shrine of the Virgin as a thank-offering, and in the expectation of further favours to be bestowed. Considering that the effigies, or *donaria*, as they were called, were manufactured by ordinary working potters with only such training as a rude practical experience of human life could impart, they are wonderfully accurate, the hands and feet especially showing far greater skill in representing those parts of the human form than

was possessed by, say, most mediæval painters. It was the custom of the priest in charge of the shrine, when the offerings began to overflow the accommodation provided for their reception on the wall of the Temple, to make a clearance by burying them in caves, thereby unconsciously laying the foundation of antiquarian collections, such as the one which has lately imparted enhanced interest to the B.M.A. "Museum." Palestrina, Corneti, Veio, and Bolsena are the spots where most of these relics have been brought to light. Many have also been recovered from the muddy bed of old Father Tiber, and the isle of San Bartolomeo, where of old stood a Roman temple, commemorative of the feat said to have been performed by the serpent of Æsculapias, which, on one occasion, when brought to Rome from Epidous to act as a charm against the ravages of a disease that had fallen upon the city, leapt overboard from the ship when approaching the coast, and swam ashore.

The majority of the votive offerings have been given by female patients; the collection contains no fewer than

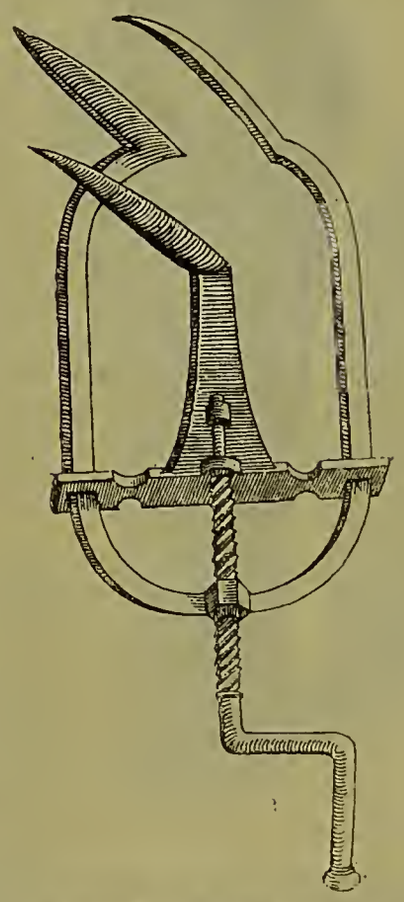


Feeding-bottles found in tombs of children. The smaller one is of glass, and was found in a Roman tomb in Paris. The larger one is of earthenware, and was found in Rome.

thirteen terra-cotta representations of uteri. Two of them, which exhibit two apertures at *os*, are supposed to be commemorative of twin pregnancy. Other figures show women in different positions of labour; another, again, representing a husband and wife with a child between them, is a thanksgiving token for offspring after a long period of sterility. Roman feeding-bottles are represented in large variety. It was the custom to bury them with children dying when very young, and they are therefore met with more frequently than almost any other object of pharmaceutical interest. Most of those in Dr. Sambon's collection are of the shape of a female breast. The milk was poured into them through a hole at the back of the bottle, from which a canula reached almost to the other end, so that none of the liquid could be spilt and no foreign matter could contaminate the contents of the bottle. The liquid was sucked by the infant through an aperture representing the nipple. Babies' rattles also show considerable ingenuity on the part of the makers. They are usually in the shape of a cock, pig, or other animal, hollow within, and furnished with a marble or piece of metal, which causes the toy to give forth a sound when shaken.

The goddess Carna was believed to possess the power of healing the heart and intestines, and to her shrine consumptive children were taken to be cured. They were there fed exclusively upon raw pork. The effects of such diet, one would think, would hardly conduce to a prolonged continuation of the belief in the powers of this particular deity. Nevertheless, Carna appears to have been fairly popular with Roman mothers, judging from the number of votive images of this goddess, who is represented carrying a pig. Dr. Sambon's collection contains one piece which he regards as affording valuable evidence on the vexed question of the introduction of syphilis in Western Europe. The prevalent belief still is that that disease was brought over by the Crusaders, although it has been stated that the Spaniards who followed in the wake of Columbus carried it with them from the Antilles, and various other theories are current. Now, in Dr. Sambon's collection there is a model of a human arm with elbow-joint having a disfigurement which the doctor declares to represent the gummata of syphilis. According to his theory the Romans knew the disease under the name of *Morbus campanum*.

The surgical instruments exhibited in this collection are mostly original, but many are replicas of those in the National



Speculum. Fourteenth century.

Museums in Rome, Naples, &c., recovered from the ruins of Pompeii and Herculaneum. There were in all more than 300, and they represent the instruments actually in use from the first to the fifteenth centuries. They include catheters, artery forceps, specula, and rings with strigules for scraping the sweat and oil from the bodies of gladiators after contests in the arena. These scrapings were highly prized as a remedial agent, and their market value was probably quoted regularly in the trade reports of the classical precurser of this journal.

The tomb of an oculist has furnished an interesting collection of glasses and ointment-boxes, many of them still containing the remnants of cosmetics and other articles.

Among these instruments is a series of forty-three different implement found in the tomb of an oculist (*medicus ocularius*). There were specialists in all the branches of

surgery, and each had their particular instruments all admirably adapted to their various uses.

The old Roman instruments were of bronze, and must have presented a beautiful appearance when in good condition, being apparently of gold, the bronze being of a peculiarly fine composition. They are, however, now rough by reason of exposure to water or earth. The scalpels and lancets had iron blades, but these are generally missing, having rusted away altogether. In some instances, however, they are still preserved, especially those instruments which were found in the Tiber. One of the probes in the collection is of lead, and was probably a model. Among the instruments of the Middle Ages, we may mention a collection of specula (*Dioptera*), powerful instruments of iron, with most extraordinary screws, with which to open their blades. It makes one shudder to think of the agony which must have been endured by patients before an anæsthetic was discovered. Two of these enormous specula are of the fifteenth century, and were discovered by Dr. Sambon in the collection of a waxworks show, where they were described to the visitor as implements of torture, devised to tear away the breasts of Christian women.

The collection includes, besides, a series of ointment-pots and glass of the same epoch, varying from the size of a saucer to that of a shilling. These all glitter with a splendid iridescence, the result of the work of centuries. Other glass vessels, probably of pharmaceutical origin, were exhibited in the same case—some from Pompeii, others from the vicinity of Baia; one of exceedingly elegant shape, found near Rome, had a blue serpent encircling its neck, an emblem of medicine.

In a separate case was exhibited a collection of guttæ—*i.e.*, drop-bottles, invalid cups, and feeding-bottles, all of different shapes, some of them of Etruscan make with rich decoration; one had the shape of a duck. It was a French engineer, M. Toulouse, who first described some of these guttæ as feeding-bottles, when he discovered them in Paris in three Roman tombs of children who died during the period of lactation. The guttæ had here been placed instead of the dishes of fish and chicken, which were provided by the side of the dead as a sort of luncheon basket during his journey to the other world.

The collection further comprises amulets worn for protection against disease; seals of Roman oculists with which they impressed their names on the medicines which they dispensed; Etruscan sets of artificial teeth bound with gold bands to the remaining teeth, indicating that the American bridge work is not a recent invention. In one of these sets the Etruscan dentist has replaced two upper incisor teeth by a single calf's tooth filed and shaped so as to replace the two missing teeth. A little ivory figure of a pregnant woman of the fifteenth century, which can be curiously dismembered for obstetrical demonstration; a collection of lamps with figures of skeletons; a collection of muramo pharmaceutical glassware.

There are many other items of no less interest than those above enumerated, but it would be consuming too much time to describe them all minutely. Moreover, as we have already said, Dr. Sambon is preparing a work on the history of medicine as deduced from monuments and other sources of information which will fully illustrate these and many other interesting features. A large number of plates have been completed, and these were also on exhibition at Bristol. Some of these were designed by Dr. Sambon himself, but the majority were by a young Sicilian artist, Signor A. Terzi. All the work indicates remarkable merit. Among those most worthy of notice was a miniature representing the interior of a hospital ward in the fifteenth century. And lastly, but of extreme interest, some beautifully executed paintings, mostly copied from old manuscripts, illustrating surgical operations in ancient Roman days and in the Middle Ages. These have all been executed by a young Sicilian artist, Signor A. Terzi, and will be used, we understand, in the work of Dr. Sambon in which the history of surgery will be traced from the abundant provision of instruments and monuments which has been collected with so much patience. Dr. Sambon, whose address is 58 Via Viminale, Rome, will be pleased to correspond with gentlemen interested in antiquarian medicine, and will be glad to receive suggestions bearing on his investigations.

Specimens of the terra-cotta votive offerings found in the Tiber near the Temple of Esculapius.

Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

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42 CANNON STREET, E.C., *August* 16.

The Liverpool Market.

Our Liverpool correspondent, writing on August 14, says that *canary-seed* has attracted most attention during the week, having recovered from 49*s.* to 56*s.* per quarter for Turkish, and now 57*s.* 6*d.* is asked by some. *Gums* are in moderate request, *Arabic sorts* meeting with a fair inquiry, and good qualities are maintained in a steady position; 40*s.* to 50*s.* per cwt. is the present range of value. Of *kola-nuts*, 6 tons kiln-dried sold at 6*d.* per lb. *Castor oil* is flat and lifeless at $2\frac{3}{32}$*d.* to $2\frac{1}{8}$*d.* for good seconds; Calcutta, 2*d.* to $2\frac{7}{16}$*d.* for first-pressure French and Madras. The stock of Californian has been further reduced by the sale of 100 cases of low grade at 31*s*; the finer qualities are firmly held at 35*s.* to 40*s.* per cwt. *African ginger* has still further declined, and now 31*s.* per cwt. would be taken by some holders. *Chilian aniseed* is arriving, and 50 bags fair quality sold at 51*s.*, ex quay.

The Amsterdam Bark Sales.

The cinchona-bark sales to be held in Amsterdam on August 30 will consist of 355 cases and 4,451 bales (about 423 tons) divided as follows:—From Government plantations, 67 cases and 231 bales (about 28 tons); from private plantations, 288 cases and 4,220 bales (about 395 tons). This quantity contains of druggists' bark: Succirubra quills, 11 bales, 296 cases; succirubra broken quills and chips, 150 bales, 59 cases; succirubra root, 5 bales. Of manufacturing bark: Ledgeriana broken quills and chips, 3,102 bales; Ledgeriana root, 809 bales; officinalis broken quills and chips, 10 bales; hybrids broken quills and chips, 350 bales; hybrids root, 14 bales.

Smyrna Opium Telegram.

Our Smyrna correspondent telegraphs on Wednesday night:—Sales have been made this week of 25 cases tale-quale opium at from 8*s.* 3*d.* to 8*s.* 6*d.* A purchase has also been made, on behalf of the Dutch Government, of 25 cases new current opium at 8*s.* 11*d.* The market is firmer.

New Customs and Excise Regulations.

An official publication of great interest to the trading public has lately been issued by the Revenue Departments. This is the revised code of regulations governing the deposit of goods liable to duty in Customs or Excise warehouses. In order to prevent the large increase of price to the consumer which would ensue from the payment of a duty at once upon goods liable thereto, such goods, on importation or manufacture, can be deposited in officially approved warehouses, and can remain there until the dealer desires to clear them for home consumption upon payment of duty. The code governing both Revenue Departments, which was first issued in 1880, has just been revised, and all the important alterations which have since taken place are now gathered up in one publication.

The quotations and references in the subjoined report refer generally to the sales on Thursday, August 16.

Acid (Carbolic).—The market remains stationary, with but little doing. Crude is quoted rather lower for forward delivery. The inquiry for all kinds this summer has been disappointing.

Aloes.—Cape aloes were in small supply to-day, and of 22 cases 13 were sold, fine hard bright at 22*s.* 6*d.* per cwt. and good at 21*s.* 6*d.* per cwt. Barbadoes, black capey, 16 cases sold at 15*s.* to 16*s* per cwt. Curaçao aloes: 46 gourds sold as to quality at 32*s.* 6*d.* to 35*s.* per cwt.; and Zanzibar aloes in skins, ordinary to good fair, 28 cases sold out of 40 packages offered, at 60*s.* to 62*s.* 6*d.* per cwt. Socotrine aloes: 87 kegs and casks bought in as to quality at 30*s.* to 75*s.* per cwt. Just arrived from Mossel Bay 27 cases Cape aloes.

Ambergris.—In fair supply, and nothing sold of 7 tins, weighing together $70\frac{1}{2}$ oz. All bought in at from 60*s.* to 100*s.* per oz.

Ammoniacum.—Ten cases offered and sold. Old yellow medium drop at 35*s.* 6*d.* per cwt., and block at 24*s.* per cwt.

Aniseed (East Indian).—Forty-three bags bought in at 27*s.* 6*d.* per cwt.

Annatto-seed.—Of 20 packages 4 bags good fair red sold at $2\frac{1}{4}$*d.* per lb.

Antimony (Crude).—Forty cases Japan were bought in at 19*l.* 10*s.* per ton.

Areca-nut.—There is very little demand for this article, and the 98 bags offered to-day and knocked down subject to importers' approval at 8*s.* 9*d.* to 9*s.* 3*d.* per cwt., were only bought as very cheap lots.

Asafœtida.—As many as 222 cases were offered to-day, ex previous sales, and the earliest from as far back as February 15. There was no demand whatever for this article, and the whole was bought in, according to quality, from 25*s.* to 95*s* per cwt.

Bael Fruit.—The 86 bags, printed without reserve, were sold at $\frac{1}{4}$*d.* to $\frac{3}{8}$*d.* per lb.

Balsam Copaiba.—Four casks Maranham were bought in at 1*s.* 6*d.* to 1*s.* 7*d.* per lb.

Balsam Peru.—The price is now 8*s.* per lb.

Balsam Tolu.—A parcel of 5 cases was retired at 1*s.* 2*d.* per lb.

Bark (Cinchona).—Of 132 packages offered, 21 were sold, amongst which were Calisaya quill at 4*d.* per lb., and hard yellow, flat damaged at 1*s.* 6*d.* per lb.

Benzoin.—The total quantity offered to-day amounted to 173 cases, of which 51 were sold as follows:—Siam fine bold, loose drop, at 18*l.* 7*s.* 6*d.* per cwt.; medium ditto at 9*l.*; small drop, in block, at 8*l.*; siftings, in block, at 65*s.*; and pickings at 45*s.* per cwt.; Sumatra, good to fine marbled, at 10*l.* 2*s.* 6*d.* to 11*l.* 5*s.* per cwt.; seconds, fair centre, a fifth dark ends, at 5*l.* 15*s.* to 6*l.* per cwt.; glassy second Penang at 65*s.* per cwt.; and low, old third, Palembang at 5*s.* to 10*s.* 6*d.* per cwt.

Bleaching-powder.—Firm, and on the spot at 8*l.* per ton, 7*l.* 10*s.* per ton, f.o.b. Liverpool, and 7*l.* 5*s.* per ton on Tyne.

Borax.—Quiet, at 21*s.* 6*d.* per cwt. for crystals, and at 21*s.* 9*d.* per cwt. for powdered. Boracic acid at 31*s.* 6*d.* per cwt. for crystals, and at 33*s.* 6*d.* per cwt. for powder.

Buchu-leaves.—The 38 bales offered were more than required, and only 6 bales of short round green leaf sold at $3\frac{1}{4}$*d.* per lb.

Calumba.—Of 268 bags, 65 of good fair quality sold at 9*s.* 6*d.* to 10*s.* per cwt. The remainder bought in from 9*s*, to 15*s.* per cwt.

Camphor (Crude).—The report that two lights on the coast of Formosa had been extinguished cropped up once more this week, but whether it had any direct influence upon the market or not is another question. There were, however, buyers all the week up to 110*s.* for China to arrive, without sellers thereat; and at the close 115*s.* was obtained for August–October shipment. The quotation from China

stands now at 128*s.* 6*d.* per cwt. for November-December shipment; and the nominal prices are 115*s.* to 120*s.* per cwt. for China, and 130*s.* per cwt. for Japan.

Camphor (Refined).—The prices for this article have further been raised to 1*s.* 8*d.* per lb. for English make in bells by ½-ton lots, and to 1*s.* 7½*d.* per lb. for German. Ten cases refined Japan, in tablets, were offered in this day's sales, and bought in at 1*s.* 5*d.* to 1*s.* 6*d.*

Canella Alba.—A parcel of 10 bales of good quality was bought in, at 35*s.* per cwt.

Cannabis Indica.—Of 88 robbins 15 of fair tops sold at 3¼*d.* per lb., while for good green the price is 3½*d.* per lb., and selling privately thereat.

Cardamoms.—Of 165 cases offered to-day, 104 were sold—fine bold Mysore, at 2*s.* 8*d.* to 3*s.* 4*d.* per lb.; medium, at 2*s.* to 2*s.* 3*d.*; smaller, 1*s.* 7*d.* to 1*s.* 11*d.*; brown and split, 1*s.* 3*d.* to 1*s.* 5*d.* Native, 8½*d.* to 1*s.* 2*d.* Seeds were sold at 1*s.* 6*d.* Mangalores bought in at 2*s.* to 2*s.* 3*d.*, and Tellicherry at 2*s.*

Cascara Sagrada.—This article was sold cheap to-day, fetching only 23*s.* 6*d.* to 24*s.* per cwt. for 66 bags out of 113 offered.

Cascarilla.—The 37 packages put up for sale to-day were all bought in at 28*s.* to 30*s.* per cwt.

Castor Oil.—Of 113 cases 100 Calcutta firsts sold, without reserve, at 2⅜*d.* per lb.

Caustic Soda.—Offering freely, 70 per cent. at 8*l.* 15*s.* to 9*l.* 5*s* per ton on the spot, at 8*l.* 12*s.* 6*d.* per ton in Liverpool, at 8*l.* 12*s.* 6*d.* per ton on Tyne, and 76 per cent. at 11*l.* 15*s.* per ton. Cream at 7*l.* 10*s.* per ton.

Chiretta.—The demand is slow, and the 26 bales catalogued were bought in, as to quality, at 2¾*d.* to 3½*d.* per lb.

Chlorate of Potash.—Nominal, at 6⅛*d.* per lb., f.o.b. Liverpool; and at 6¼*d.* per lb., f.o.b. London.

Coca-leaves.—Two parcels of (together) 16 bales of Ceylon and Truxillo of good green leaves were bought in at 1*s.* 3*d.* for the former, and at 1*s.* per lb. for the latter, one bale damaged excepted, which sold at 3*d.* per lb.

Colocynth.—The very small lots that were still to be had on the spot last week have now been sold for export or otherwise, and new arrivals are anxiously waited for.

Copper (Sulphate).—Flat, at 13*l.* 15*s.* per ton in London, and from 14*l.* 2*s.* 6*d.* to 14*l.* 5*s.* per ton, f.o.b. Liverpool.

Cowage.—Seven cases bought in at 1*d.* per oz.

Cream of Tartar.—Best white French and Italian crystals at 63*s.* per cwt.; and German powder at 65*s.* 6*d.* per cwt.

Cubebs.—With no demand whatever for this article, the 188 bags in sale to-day had to be bought in at from 50*s.* to 55*s.* per cwt., for which reasonable bids would gladly be accepted.

Cumin-seed.—One hundred and thirty-seven bags bought in at 35*s.* to 40*s.* per cwt. for Malta; and at 28*s.* per cwt. for Mogadore.

Cuscus.—The 82 bales of more or less sandy quality were bought in at 15*s.* to 25*s.* per cwt., except 15 bales that sold at the former price.

Dragonsblood.—Of 32 cases 8 sold without reserve, mixed fine and low seedy lump, at 6*l.* 10*s.* per cwt.

Elaterium.—Two boxes bought in at 2*s.* 6*d.* per oz., which is the limit to be sold at.

Elemi.—The 11 cases on sale to-day of good white quality, slightly mixed with yellow and grey, sold at 33*s.* per cwt.

Ergot of Rye (Spanish).—Neglected, and of 15 bags offered, 2 bags sold before the sale, price not named; and the remainder bought in at 9*d.* to 10*d.* per lb.

Euphorbium.—A parcel of 16 serons of pale gum was bought in at 40*s.* per cwt., but less would be accepted for it.

Gamboge.—The quantity offered was again a large one, and of 79 cases 20 sold at a decline of about 10*s.* per cwt; good free pipe, with a few slightly run, at 9*l.* 15*s.* per cwt.; good blocky pickings from 8*l.* to 8*l.* 10*s*; and ordinary lump at 7*l.* per cwt.

Gentian-root.—A parcel of 30 bales sold at 14*s.* per cwt

Guaiacum.—Of 27 cases 7 sold—ordinary loose mixed woody at 4¾*d.*, and good fair drop, partly mixed with dust, at 1*s.* per lb.

Honey.—In large supply, and of 172 packages 80 Jamaica sold, according to quality and packages, at from 21*s.* 6*d.* to 28*s.* 6*d.* per cwt.

Insect-flowers.—The new crop, it is believed, will turn out to be smaller than usual, and an early influx of American orders may be anticipated. These combined circumstances may not unlikely cause some advance in prices before long.

Ipecacuanha.—Of 93 bales 59 sold. There was a very good demand at full prices, selling according to quality at 3*s.* to 4*s.* per lb. Cartagena was bought in at 3*s.* 2*d.* to 3*s.* 3*d.* per lb.

Jalap.—Nine bags shrivelled Tampico all bought in at 10*d.* per lb.

Kamala.—One case bought in at 11*d.*

Kino.—One box offered of fine genuine quality was bought in at 32*l.* per cwt.

Kola-nuts.—Only 7 bags were offered to-day, of which 3 were sold at 8½*d.* to 11¼*d.* per lb., according to quality.

Liquorice-root (Persian).—The 82 bags offered in to-day's sales were bought in. Private sales are reported at 11*s.* 6*d.*

Mastic.—Three cases were bought in at Thursday's sales at 2*s.* 2*d* per lb. It is not unlikely that a bid of 2*s.* would be accepted.

Menthol Crystals.—Three cases were offered to-day and bought in at 17*s.* 6*d.* per lb. It is quoted firm at 16*s.* on the spot, but for forward delivery lower quotations are named. For October-November the figure is 12*s.*

Musk.—Several parcels, together 10 tins, offered to-day, mostly pods of thin blue skin, were bought in up to 65*s.* per oz.

Myrrh.—Of 19 packages only 3 were sold—mixed bold grain at 52*s.* per cwt., and fine hand-picked at 6*l.* per cwt.

Nux Vomica.—Several parcels amounting to 209 bags were offered to day, of which 120 found buyers at 4*s.* to 7*s.* per cwt.

Oils (Essential).—At auction on Thursday the following lots were offered:—Cinnamon oil, 19 cases, bought in at 6*d.* to 1*s.* 1*d.* per oz.: cinnamon-leaf oil, 9 cases, bought in at 2*d.*; eucalyptus oil, 12 cases, bought in at 2*s.*; geranium oil, 13 pots, bought in at 2¾*d.* to 5*d.*; lemongrass oil, 25 cases, of which 8 were sold at 1¾*d.* per oz.; star-aniseed oil, 4 cases, bought in at 7*s.* 1*d.*; spearmint oil (HGH), 2 cases, bought in at 10*s.*; orange essence, 2 cases, bought in at 8*d.* per oz.; Cocking's Japan peppermint oil, 10 cases, bought in at 11*s.* per lb.; nutmeg oil, 9 cases, 5 sold at 2¼*d.* per oz; cajuput oil, 25 cases, bought in at 2*s.* 3*d.* per bottle; sassafras oil, 3 cases, bought in at 1*s.* 1*d.* per lb.; citronella oil, 5 drums, bought in at 1*s.* per lb. There is fair reason to expect the long-delayed American demand now that the tariff is settled; and this may influence prices in the near future.

Opium.—A Smyrna correspondent, writing on August 11, says:—During the past week about 15 cases good sightly opium have changed hands at 8*s.* 1*d.* to 8*s.* 4*d.*, f.o.b. About 10 cases of these are for Germany. This country has bought nothing since values rose in 1893, but on the contrary sold all her holdings to United States. A good demand is expected from that quarter this year in consequence, especially if, as is generally expected, prices drop to 7*s.*, and lower ere long. This state of things will very easily be brought about if United States continues to hold off and beneficial rains fall during this and next month. The maximum yield of new crop will be as follows:—Karahisar Kouiah Acksheir, 1 700 cases; Constantinople yerli, 1,000 cases; Salonica (60 okes), 1,200; Malatia tokats, &c., 800 cases; Smyrna yerli, 800 cases; total, 5,500 cases.

Orange peel.—Of 74 packages, 4 bags thin cut sold at 4*d.*

Orris-root.—New Florentine root is offered for September-October delivery at 58*s.* per cwt., f.o.b. Leghorn.

OTTO OF ROSES.—The final settlement of prices is still delayed, but buyers, evidently not anticipating any advance, are not eager to supply themselves.

PUREE.—Nine cases of good quality were bought in at 8*s.* 6*d.* per lb.

QUASSIA-WOOD in logs.—Fifteen tons offered to-day bought in at 5*l.*

QUICKSILVER.—No change at 5*l.* 19*s.* per bottle in second hand, and at 6*l.* in first.

QUINCE-SEED.—Of 7 bags Cape, 1 sold at 8½*d.*

QUININE.—The 1,000 oz. Brunswick offered in sale to-day were bought in at 1*s.* 2*d.* Business has been done at 1*s.* 0½*d.*

RHUBARB.—Of 92 cases offered to-day, 25 were sold at 1*d.* to 2*d.* per lb. above last sale prices: Shensi, good medium round, pinky fracture, at 2*s.* 3*d.*; small at 1*s.* 11*d.*, and low rough at 1*s.*; Canton, medium flat, at 1*s.* 1*d.*; ordinary flat, high-dried, at 8½*d*; small rough, round, high-dried, at 5½*d.* to 5¾*d.* The balance, particularly Canton, for which there was a good demand, was held for higher prices

SANDALWOOD-CHIPS.—203 bags were bought in at 10*l.* to 12*l.* per ton.

SARSAPARILLA.—Of 49 bales, 25 were sold: Jamaica, 1*s.* to 1*s.* 3*d.*; Guayaquil, 9*d.* to 9½*d.*; Lima, 10*d*; and Honduras bought in at 1*s.* 3½*d.*

SENNA.—127 bales Tinnevelly and 22 bales Mecca were offered at Thursday's sales. For the former there was a fair demand, 94 bales being sold, low at ⅜*d.* per lb. to good bold leaf at 6½*d.* The Mecca leaves were all bought in at 1½*d.* per lb.

SENNA-PODS.—The high price paid recently in sale for Alexandria has not been maintained, and privately business has been done at something less. For 13 bales offered to-day there was no bid.

SHELLAC.—Orange advanced 4*s.* in last Tuesday's sales. Of 325 cases catalogued, but only 250 offered, 182 sold. Fine orange at 130*s.* per cwt.; fine second orange at 113*s.* to 114*s.* per cwt.; orange fair to good at 93*s.* to 100*s.*; low at 91*s* to 92*s.* per cwt.; AC Garnet 98*s.* per cwt. asked; orange TN quality to arrive at 95*s.* per cwt.

SOY.—Of 45 casks offered 25 were sold at 11½*d* per gallon.

SPICES.—After yesterday's sales the following prices were established: Black Singapore pepper at 2 7/16*d.* to 2 9/16*d.* per lb.; black Penang ditto at 2*d.* to 2¼*d*; black Lampong ditto at 2⅛*d.* to 2¼*d.*; white Penang pepper at 2 15/16*d.*; white Singapore ditto at 4*d.* to 4⅛*d.*; Zanzibar cloves at 2⅜*d.* to 2½*d.*; pimento at 2⅝*d.* to 2⅞*d.* per lb.; Cochin ginger rough washed at 43*s.* per cwt., and Jamaica according to quality at 56*s.* to 110*s.* per cwt.

SQUILLS.—There was no demand for the 29 bags offered on Thursday. They were bought in at 3½*d.* to 4*d.* per lb.

STROPHANTHUS-SEED.—A pocket of Combé of 28 lbs. offered to-day was brought in at 4*s.* per lb.

TAMARINDS, E.I.—Of 44 casks 20 were sold without reserve at 10*s.* 6*d.* per cwt.

TEA.—The market keeps steady to firm for all grades and kinds of tea, but so far shows no further actual advance. A fair trade is doing in Ceylons, which are still very cheap, in spite of the recent rise in prices, Pekoes and broken Pekoes, from 7½*d.* to 9*d.*, showing perhaps the most striking value. Pekoes sold on Tuesday down to 5¾*d.* for common (but not very common), and common Souchongs down to 5¼*d.* per lb. Fine teas were in strong demand at extreme prices. Lighter sales are catalogued for next week, and it would not be very surprising if a further advance were to be recorded before the month is out, although the low rate of exchange will encourage a heavy import of lower grades. New Assams are in plentiful supply, and are coming in more generally useful as the season advances, but good teas are as yet far too high in price to encourage buying other than hand to mouth. A steady, though not large, trade is doing in the country in medium to good Kintucks and Keemuns at very firm prices.

TONQUIN BEANS.—Two cases Angostura, ordinary to good, were bought in at 5*s.* to 7*s.* per lb.

VANILLA.—The quantity of 64 tins at auction to-day was a small supply, and prices realised were rather higher: 8½ to 9 inches, 20*s.*; 6 to 6½ inches, 11*s.* 6*d.*; 5½ to 7 inches, 11*s.* 6*d.*; 5 to 6½ inches, 10*s.* to 10*s.* 6*d.*; 5 to 5½ inches, 8*s.* 9*d.* to 9*s.* 3*d.*; 5 inches, 9*s.* 3*d.*; and 3 to 4 inches at 7*s.* 3*d.*

WAX (BEES').—The large supply of 574 packages met to-day only a moderate demand, less than half being sold—Madagascar, 5*l.* 17*s.* 6*d.* to 6*l.* 7*s.* 6*d.*; Jamaica, 7*l.* 2*s.* 6*d.* to 7*l.* 10*s.*; West Indian at 7*l.* 5*s.*

WAX (JAPAN) sold at 31*s.* to 32*s.* per cwt.; quotations to arrive probably at 29*s.* per cwt. on c i f. terms.

ZEDOARY-ROOT.—A small lot of 8 bags was sold very cheaply, at 16*s.* per cwt.

PEANUT OIL.

THE report of the American Consul at Marseilles contains some interesting facts concerning the manufacture of peanut oil, an oil which is largely coming into use for various economic purposes. Extraction of oil from peanuts is rapidly increasing, no fewer than seventeen factories being at present engaged in the industry, and the quantity of nuts imported at Marseilles for this purpose during 1893 exceeding by 314,000 metric quintals (69,224,400 pounds) the importation for 1892. The general method of producing the oil is as follows:—On arriving at the factory the peanuts are first placed in a machine of the nature of a "winnower," in which all outside dirt and other foreign substances are removed. Having been thus superficially cleansed the nuts are conveyed by an Archimedean screw to the shelling-machine, where they are deprived of the shells. Thence the nuts fall into the first triturating-machine, consisting of a pair of cast-iron rollers, where they are coarsely ground, and at the same time any foreign bodies, stones, &c., are by an ingenious arrangement rejected. From this machine the meal passes to another, where it is again ground finer, and thence into a long hexagonal case forming a sieve, through which the fine meal passes, while the coarse is sent back to the rollers again. The meal is then pressed in "scourtins" made of horsehair, a pressure of 2,850 lbs. to the square inch being exerted and left on for an hour, which is sufficient to extract all that can be obtained in the first yield. The meal is then removed from the "scourtins," ground a second time, heated to a temperature of about 70° C. (158° F.), and a second pressing is effected. If oil of a very fine quality is required the nuts are crushed only once, partially-ground nuts yielding a smaller but finer product. The yield varies according to the quality of the nuts. Mozambique nuts produce about 50 per cent. in the first pressing, and the value is from 70f. to 95f. per 100 kilos.; the second pressing yields about 12 per cent., the value of which is from 45f. to 50f. per 100 kilos.

The oil is largely devoted to the manufacture of white soap, for which it is highly prized. It is also used as salad oil and in the composition of margarine. Large quantities are also sold as olive oil, principally in the United States. A smaller amount is used for illuminating purposes. The cake left after pressing is particularly rich in nitrogen and forms an excellent cattle food, and commands a price of 13f. per 100 kilos. if made from shelled nuts.

STRUTT'S UTOPIA SOAPS (LIMITED).—Capital 6,000*l.*, in 300 A and 300 def. shares, all of 10*l.* each. Objects: To carry on the business of soap-manufacturers, soap-merchants, wharfingers, shipowners, and carriers by land and sea. The first subscribers are:—W. Wright, Woollaton, J.P.; C. W. Wright, Woollaton, M.A.; H. H. Prichard, 54 Albert Road, Liverpool, solicitor; P. Halpin, New Brighton, accountant; H. H. Ayre, Withernsea, manufacturer; W. Gilfoy, 95 Grafton Street, Hull, clerk; G. W. Schofield, 70 West Parade, Hull, clerk. Until otherwise determined the subscribers to the memo. of the association are to be the first directors. Qualification, 100*l.*; remuneration not yet determined. Registered office: 8 Victoria Buildings, Victoria Street, Liverpool.

Correspondence

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

The Song of the Pills.

Listen to the mortar's clangs, as the Man of Physic
Bangs—
As he lifts and drops anew the pestle
In his hands!
Poised in air with deadly aim
Above the bowl,
The weapon sweeps with fearful roll
To its goal.
Powdery stuff is flying round and filling
Every hole,
'Midst the banging, and the jamming, and the clanging
Of the whole.

In the extracts go
With a thud,
Making all the mixture look
Red as blood,
Mixing, sticking all the drugs
Like mud.

Listen to the sound of the solid mass and round
As it rolls!
The keen blade passing swiftly till it falls
Into moulds—
Into four-and-twenty plastic little balls—
Into "five-grain" doses, fit for people's calls.

Oh! listen to the music of
The pills!
What cures are fashioned here
For human ills!
What misery and woe each noduled
Mass foretells,
Ere the sickness and the other pain
It quells!

Oh! these shining little pills!
Each with joy the chemist fills,
For the crowd are ever coming to be cured
Of all their ills.
They stock the good man's tills,
They pay his little bills,
Do these far-famed, famous,
Funny little pills.

J. N. C. (170/34.)

The Irish Pharmaceutical Council.

Sir,—Does not the position of the Council of the Pharmaceutical Society of Ireland seem somewhat illogical and absurd? They refuse certificates from limited companies, and at the same time carefully abstain from testing the legality of the said companies' trading. Either limited companies can legally carry on their business or they cannot. If they can, their certificates should be received; if they cannot, prompt measures should be taken to prevent their trading.

Yours, &c.,
M.P.S.I. (107/65.)

Homœopathic Tinctures.

Sir,—The information given on page 165 of the current volume, in answer to "Solidus," is somewhat misleading, as a reference to Keene & Ashwell's useful little book would have shown.

Tinctures of herbs, &c., whenever practicable, are made of the strength 1 in 10, 10 minims of the tincture representing 1 gr. of the dry herb. These are the mother tinctures, and are designated by the sign ϕ or θ. One part of mother-tincture diluted with 9 parts of spirit of the same alcoholic strength as that with which the ϕ was prepared, yields the 1ˣ tincture, representing 1 per cent. of the crude substance. But the rule is different in the case of chemical bodies, hence the confusion that arises. In these instances the sign ϕ refers to the substance itself, and 1ˣ to the 10-per-cent. attenuation thereof, whether a solution in water or alcohol, or a trituration with sugar of milk.

Whether we sympathise or not with the system of "fantastic physic" founded by "that German crank"—as you recently dubbed the venerable Hahnemann—it is as well that we should correctly interpret that system to its adherents.

Yours truly,
Brighton. C. S. Ashton.

P.S.—In reply to "T. F. E." in your last issue, it may be mentioned that *Teucrium Marum* is a favourite anthelmintic with homœopaths.

DISPENSING NOTES.

Correspondents should consult "The Art of Dispensing" in regard to dispensing difficulties. Difficulties not explained therein may be sent to the Editor, who invites a general expression of opinion upon the undermentioned topics.

An Illegible Prescription.

We have received the following replies relative to the illegible prescription published last week:—

The prescription which has puzzled M. Jules de Muzsa, of Ostend, and of which you gave a good reproduction in last week's *C. & D.*, is not quite so illegible as it appears at first sight, although it must be admitted that it is as good a specimen as a collector of such oddities might wish for.

The document reads as follows:—

℞
Morph. mur... .. .. .. centigr. sex
Chinin. mur. .. .. .. centigr. 80.
Natr. bicarb.
Sacch. albi .. .. aa. gram. tria
M. F. pulv. Div. in d. xij.
D.S. Taeglich 4 Stück zu nehmen. 1 powder four times a day.)
℞
Host. .. .. q.s.
(Wafer papers).
℞
Ungt. althœæ .. .. .. grm. 40
Extr. mezerei .. .. .. centigr. viginti
M. F. ungt. D S. pr. us. ext.

The figures on the left-hand side show the prices charged at Buda-Pest.

M. K. Hebbeler.

M. Jules de Muzsa's reading is as follows:—

℞.
Morph. muriat. .. .. .. centigr. sex
Chinin. murint. .. .. .. centigr. 80
Natrii bicarbon.
Sacchari albi .. .. .. aa. gram. tria
M. F. pulv. Div. in dos. xij.
D.S. Täglich 4 Stück zu nehmen.
℞.
Hostics .. .. q.s.
℞.
Ung. althœæ .. .. .. gram. 40
Mur. morphii .. .. .. centigr. viginti
M. F. ung. D.S. Kenöcs *
2/i. 86 Dr. G.

* Ointment in Hungarian tongue.

[This differs from that given by M. Hebbeler in the last item, which the latter reads extr. mezerei instead of mur. morphiæ. We think M. Hebbeler is correct. Only two other attempts at translation have reached us. We append these and it will be seen that they indicate various readings in places.]

℞
Sulph. eserinæ .. .. .. centigram. sex
Chininæ mur. .. .. .. centigram. 80
Natr. bicarb.
Sacch. alb. .. .. ana gram. tria
In pulveres xij.
D.S. Täglich ij. P. zu nehmen. (2 powders to be taken daily.)
Hastig! (Immediate!)
℞
Ung. althææ .. .. .. gram. 40
Mur. morphinæ .. .. .. centig. viginti.

C. S. Ashton, Brighton.

Rp.
Morph. mur. .. .. ctgr. sex
Chinin. mur. .. .. ctgr. 0·80
Natr. bicarb.
Sacch. albi .. .. aa. gr. tria
M. F. p. Divid. in xij.
D.S. Täglich 4 Stück zu nehmen.
Rp.
Hostiam tab. I (wafer).
Rp.
Aqua destillat. .. .. gr. 40
Mur. morphii .. .. centgr. viginti
M.D.S. N. Berlcht (as directed).

M. T. Gans, Vienna.

Borax-and-Glycerine Gargle.

171/38. *Juro* asks whether the subjoined gargle can be dispensed without effervescence, and why it effervesces:—

℞
Sodæ bicarb. .. .. ʒij.
„ bibor. .. .. ʒij.
Potass. chlor. .. .. ʒij.
Glycerin. .. .. ℥ij.
Aq. ad .. .. ℥viij.
M. Ft. gargar.

This is an old friend. The glycerine and borax react, borate of glyceryl, water, and metaborate of sodium being formed, the borate of glyceryl immediately reacting with the water to form glycerine and boric acid. The latter then unites with the carbonate of sodium, causing the effervescence. The decomposition is, probably, not intended, but it does not in any degree interfere with the efficacy of the mixture.

Salol in Pills.

171/38. *Juro* asks the best excipient for the following pills:—

Salol .. .. ʒj.
Pancreatine .. .. gr. 40
Oleo-resin capsici.. .. .. ♏xv.
M. Ft. pil. xx.

Mucilage of acacia, with the addition of a little S.V.R., is all that can be desired. The spirit keeps the pill within reasonable size.

MISCELLANEOUS INQUIRIES.

The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.

Back numbers containing formulæ, educational or other specific information can be obtained from the Publisher.

100/56. *J. A. R.*—**To Cure "Fire" and Soreness on Hands of Workers amongst Salt Pickle, used to Cure Herrings,** use a carbonate-of soda lotion, such as that of the Aberdeen Pharmacopœia, with the addition of a little glycerine. Recommend, also, marshmallow ointment, to be rubbed well in at night two or three times a week. The sulphurous-acid lotion you mention would be more suitable for "chapped" hands during the winter months.

101/73. *J. R. B.*—**To Prevent Shag Tobaccos becoming Mildewed** during summer months, even when kept in earthenware jars in a cool place, see that the lids of jars do not fit too tightly. Occasionally shake tobacco out so as to allow free access of air to it. To prevent becoming too dry place a slice of unripe apple or raw potato in each jar. If you attempt adding any chemical you are liable to have the Excise down on you.

103/44. *Blue Bonnet.*—**Syrup of Camphor.**—The following is the usual formula for this preparation:—

	Drs.
Spirit of camphor	10
Syrup	5
Distilled water	1

Mix.

102/50. *F. B.*—**Sample of Cocoa-butter, used for Removal of Face-paint by Theatricals,** is the solid fatty acids obtained from cocoa-nut oil (*Cocos nucifera*). It is a mixture of various fatty acids, easily obtainable, being a commercial article used in the preparation of soaps and candles. A mixture of spermaceti and cocoa-nut oil, of a suitable consistency, or even ungt. cetacei made with half the usual quantity of oil, will answer the purpose.

101/62. *Vet.*—**Reliable Horse-blister:—**

Powdered cantharidis .. .. .. ½ oz.
Resin ointment .. .. 1½ oz.
Turpentine .. .. q.s. to make a softish ointment.

If a very strong blister be a desideratum, ¼ oz. powdered euphorbium may be added, but this is seldom necessary. Red iodide of mercury ointment is much slower in action than the above, being a resolvent as well as a blister, hence your disappointment. To quicken the action it is advisable to add at least 30 grs. of iodine to each ounce of the ointment. At times iodine or biniodide is combined with the cantharides blister with advantage. Of course, as directed in "Veterinary Counter Practice," the place must be well washed with soft soap and warm water, and thoroughly dried, to obtain the best effect.

98/9. *Hypophosphites.*—In formula given at page 878, December 16, 1893, for **Syr. Hypophosphitis Co.,** there is rather too much sugar ordered. Use 12 oz. avoir. in place of 12 oz. Troy, as there given—this leaves about 8 oz. of fluid to be added to make 16 oz. syrup. Proceed as instructed with iron and manganese, and add to sugar in bottle, then rub up the hypophosphites of calcium, potassium, and sodium with 5 oz. of water until solution is obtained (it takes rubbing), and add this to the sugar, &c. Shake until the sugar is dissolved to form a syrup, and strain if necessary. For cause and cure of disagreeable smell developed after a time, see paper read at Conference, and discussion thereupon, reported in our Conference number. We prefer to prepare the syrup by double decomposition, adding a little glycerine to the compound liquor obtained, and then the sugar to form the syrup. Have you tried the B.P.C. process?

105/71. *Arthur.*—Pyrogallic acid will keep in solution if carefully protected from the air. The coloration is due to absorption of oxygen.

103/61. *Lester.*—Dilute hydrochloric acid will remove the stain of permanganate from the hands.

104/30. *Pharmacy.*—**Meat-preservative Powder.**—The following is one of the most used:—

	Parts
Nitrate of potash	15·5
Chloride of sodium	73·5
Boric acid..	9·5

(2) A "Manual of Minor Surgery and Bandaging," by C. Heath, published by Churchill & Co. Price, 5*s.* 6*d.*

105/39. *Podoph.*—**Liquor Podophyllini.**—This may be prepared by substituting aromatic spirit of ammonia for the S.V.R. in the official formula. If the ammoniacal odour be objected to, the following may be used:—

Resin. podoph.	gr. viij.
Potass. carb...	gr. v.
Aq. dest.	ʒij.
S.V.R...	ʒvj.

Dissolve the carbonate in the water, and add the solution to the spirit previously mixed with the podophyllin resin; allow to stand a day or two and filter.

Either formula makes a liquor miscible with water.

105/44. *A. H. W.*—No. 1 is the resin of *Shorea siamensis*, known in Burma under the name of "Engyin." No economic uses seem to be attached to this resin, but the various species of Shorea yield fragrant resins, which are employed in India and Burma for fumigating purposes and as incense. No. 2 is probably a portion of the stem of a *Euphorbia*. No. 3 is the seed of *Mucuna macrocarpa*—of no economic use.

99/49. *Beccabunga.*—The plant sent is the small bindweed (*Convolvulus arvensis*), which is described by Hooker as "a pest to agriculture." This particular example illustrates a monstrous form termed "dialysis." See "Vegetable Teratology" (M. T. Masters), page 69.

103/28. *Cystis.*—**Clearing Solution for Crystoleum-painting.**—Equal parts Canada balsam and castor oil thinned with turpentine, or Canada balsam and turpentine with the addition of a small quantity of oil of lavender, as used by portrait-painters for oil-colours. See Diary, 1894, page 361.

103/26. *Quæro*—**To Preserve Rubber Goods.**—See page 260, February 18, 1893. We should rather recommend hanging them over an ordinary clothes-screen than putting in an oven, which is risky. Turn them occasionally, and after rubbing well over with the least quantity of glycerine as recommended, dust with French chalk.

103/23. *Inquirer.*—(1) **Essence of Vanilla.**—Your sample made according to formula, page 255, Diary, 1889, is too thick and is wanting in strength and delicacy of flavour. The best essences are obtained by prolonged maceration in spirit. Try this:—

Vanilla	1 oz.
Musk	1 gr.
Water	2 oz.
Rectified spirit	14 oz.

Rub up the vanilla with powdered glass or coarse sand, add water and spirit, macerate for a month, and filter.

See also page 250, February 13, 1892. (2) **To Repair Cracks and Chips and Renew Polish on Patent-leather Boots.**—See page 85, January 20, 1894; page 101, January 28, 1893; and page 812, June 6, 1891. Here is another formula:—Indiarubber, ¼ oz.; mineral naphtha or benzine, 2 oz.: dissolve. Asphalt, ½ oz.; turpentine, 1 oz.: dissolve. Mix the two solutions.

103/35. *Puzzled*—**Good Remedy for Asthma**, the smoke to be inhaled.—Stramonium, lobelia, bayberry, of each 2 oz.; cascarilla-bark, ½ oz. in fine powder: mix. Nitre and sal ammoniac, of each ¼ oz.; benzoate of soda, 60 grs. Dissolve in least possible quantity of boiling water, mix with the herbs, dry in an oven at a gentle heat, and add powdered camphor, ½ oz. Pass all through a sieve two or three times.

106/28. *Welshwoman.*—Get Dodd's "Guide to the Preliminary Examination" (2*s.*) from a wholesale house or from this office, post free 2*s.* 3*d.*

106/53. *Shamrock.*—We do not know how to mend bellows.

106/37. *C. C.*—**Ung. Acid. Chrysophanic.**—It is always advisable in preparing this ointment not to dissolve the acid in the fat by the aid of heat. The acid is very apt to crystallise out, when the sharp crystals are very irritating to the skin.

106/34. *Shemus.*—**Distilled Water.**—The keeping properties of this article depend entirely on the care with which it is stored. If properly stored it should keep good for a month or more, summer or winter, while if badly stored it will go wrong in a few days.

104/19. *Junior.*—To prevent falling-out of the hair reliance should be placed more on due care and attention than on the use of stimulating lotions. The hair should be cut short and kept so for some time, and the head well rubbed with a towel or brush every day until the skin is somewhat red. Frequent washings in cold water are also advantageous. Attention must also be paid to diet, exercise, and general health, inattention to these being a frequent cause of injury to the hair. The use of a little oil or pomade is advisable in preventing the head from getting too dry. If a stimulant be required Erasmus Wilson's lotion is one of the best preparations to use.

106/26. *Wilts.*—**To Prevent the Brine used by Bacon-manufacturer "Going Bad,"** as it will at times, recommend the addition of about 25 per cent. of boric-acid crystals to the rough salt used for making the pickle. When bought in quantity this may be obtained at a price suitable for the purpose, and has been used mixed with salt for curing herrings, &c., with good effect. There is no reason why condensed water should be used in place of that obtained from a spring, unless organic matter be present in the natural water. A hard natural water is less likely to go bad when used for any purpose such as you mention than the purest distilled water would be.

105/12. *J. B.*—**French Chalk** may be used for **Getting up Linen** by sprinkling it into the cloth used for finally wiping the irons before applying to the articles to be ironed. See also **Glaze and Finish Formula**, published page 274, August 11, 1894. This may used with either hot or cold water starch.

106/62. *Grace.*—See reply to "Junior."

INFORMATION SUPPLIED.

For this section we are always glad to receive from subscribers brief notes on practical subjects, recipes which have been found good in practice or which have required modification, and hints or fresh ideas on any pharmaceutical or trade matter.

Hay-spice.—Replying to "Hayseed" (97/30), page 274, Messrs. Sinclair & Son, Southwark, S.E., recommend a mixture of powdered fenugreek with a little salt.

Hay-spice.—In answer to "Hayseed" (97/30) in your issue of August 11, what he refers to as "hay-spice" is probably the powdered seeds of fenugreek (*Trigonella Fœnum-græcum*). Fenugreek has a powerful odour of coumarin, and is largely used for flavouring cattle-foods and for rendering damaged hay palatable, &c.

Museum, Royal Gardens, Kew. J. M. Hillier.

Maldon Salts.—This is made at Maldon, in Essex, and is a kind of pure chloride of sodium, in crystals. There is a firm of salt-merchants, close to Billingsgate Market, who are the wholesale agents.

Ramsey, Isle of Man. T. Swales.

Essence of Ratafia.—On page 273 a form is given for this essence, but the difference between ess. almonds and that would only be in the labels. The following formula agrees with the practice of the trade:—

	Parts
Ol. amygd. essent. sine acid.	1
Tinct. aurantii	1
Sp. vini rect...	6

T. Swales.

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Retail Prices Per Dozen.		Wholesale Prices Per Dozen.
6D.	SIZE, unscented - -	4S.
1S.	" all shapes, Washing or Shaving	8S.
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Packed in 4-oz., 8-oz., and 16-oz. (fluid) Bottles.

SPECIAL QUOTATIONS IN BULK.

Liquor Calcii Hypophosph.	1 to 7	3/6	per lb.
Liquor „ Lactophosph.	1 to 7	5/-	„
Liquor Ferri et Calcii Lactophosph.	1 to 7	5/-	„
Liquor „ Lactophosph.	1 to 7	5/-	„
Liquor „ Hypophosph.	1 to 7	3/6	„
Liquor „ Bromidi	1 to 7	6/-	„
Liquor „ Iodidi	1 to 7	8/6	„
Liquor „ Phosph.	1 to 7	2/6	„
Liquor „ „ Comp.	1 to 3	2 6	„
Liquor „ et Manganes. Phosph.	1 to 7	7/-	„
Liquor Fastoni	1 to 3	8/-	„
Liquor Manganes. Phosph.	1 to 7	3/-	„
Liquor Hypophosph. Comp.	1 to 7	5/-	„

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For the Proprietor,
December 1st, 1891.

36

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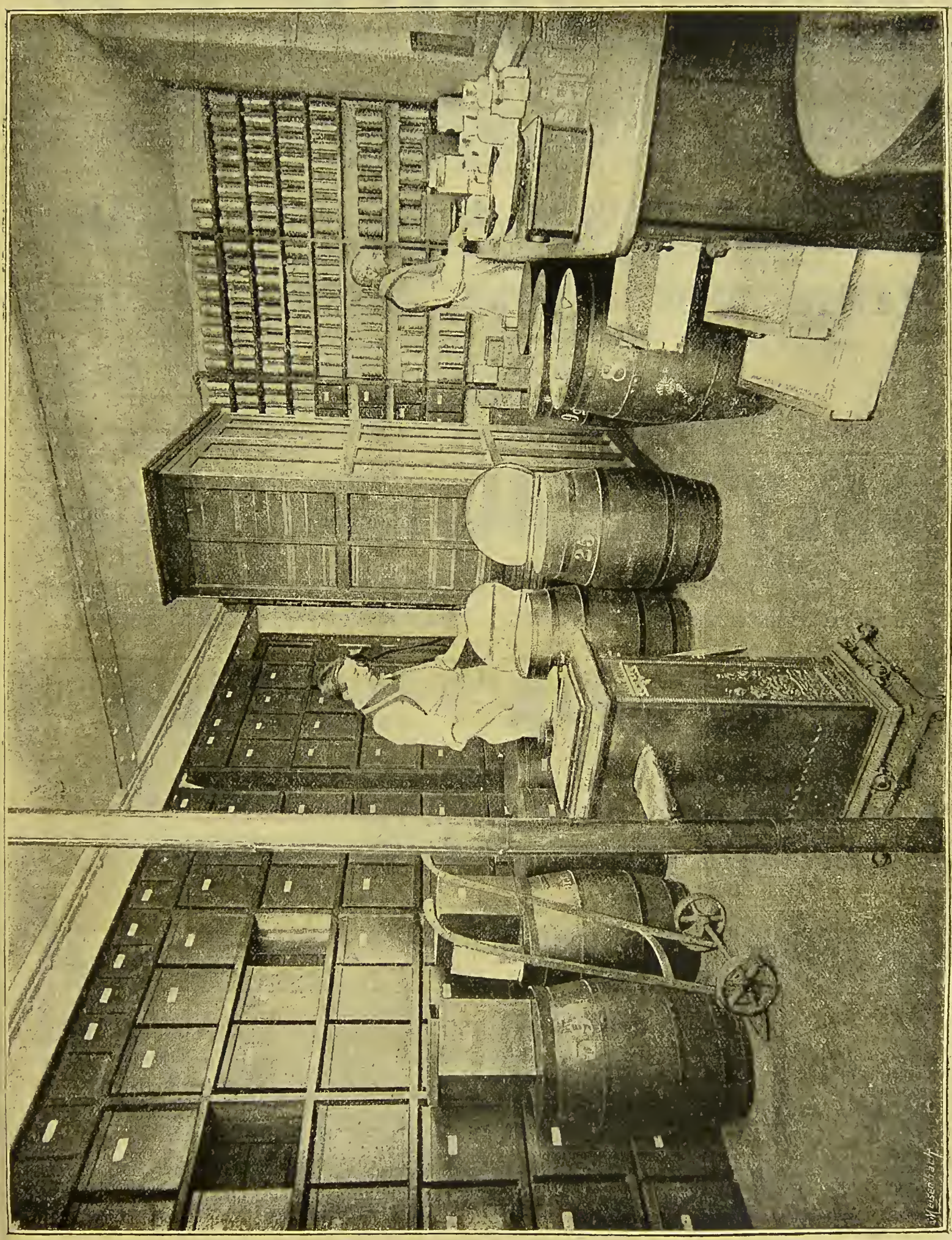

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	Per Gross.	Per lb.		Per Gross.	Per lb.
Pil. Aloes et Ferri, P.B. ...	/6	4/-	Aperient (Mild)	/6	4/-
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Ol. Chaulmoogra, ♏x.	20/- ,, ,,	Quininæ Sulph., grs. iii. ...	18/- ,, ,,

Effervescent Preparations.

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Citrate of Magnesia (A)... ...	1/6	130/-	Antipyrine, grs. v. to ʒi.	6/- lb.
,, ,, (B)... ...	1/-	75/-	Caffein Cit., ,, ,, ...	4/6 ,,
,, ,, (C)... ...	/10	70/-	Phenacetin ,, ,, ...	6/- ,,
,, ,, (D)... ...	/9	65/-	Sodii Sal. ,, ,, ...	3/- ,,

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Alterative	2/- Doz.	21/- Gross.	Physic, 4 drs. ...	2/- Doz. 21/- Gross.
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Diuretic	1/9 ,,	18/- ,,	Tonic	2/- ,, 21/- ,,

"A I" Compressed Tablets.

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Antipyrine	54 - per lb.	Coc., Pot. Chl., and Borax ...	4/6 per lb.
Borax	1/9 ,,	Ipecac. c. Opio	7/- ,,
Cascara, grs. ii.	8/6 ,,	Potass. Chlor.	1/3 ,,

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Mono Carbonate of Soda	1·90
Sulphate of Soda	trace
Chloride of Sodium	·035
Moisture	·82
Insoluble	nil

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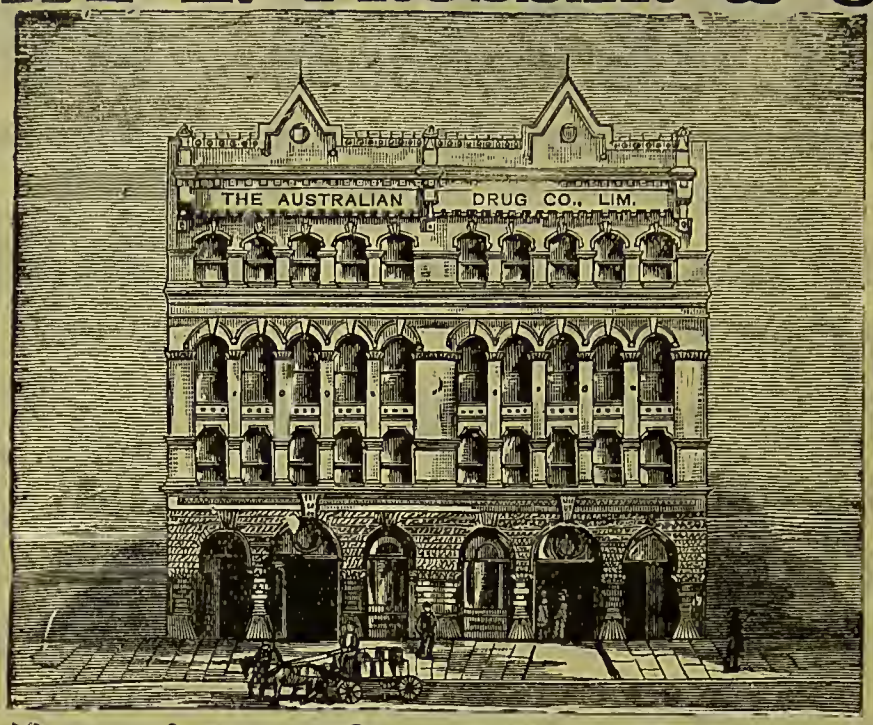

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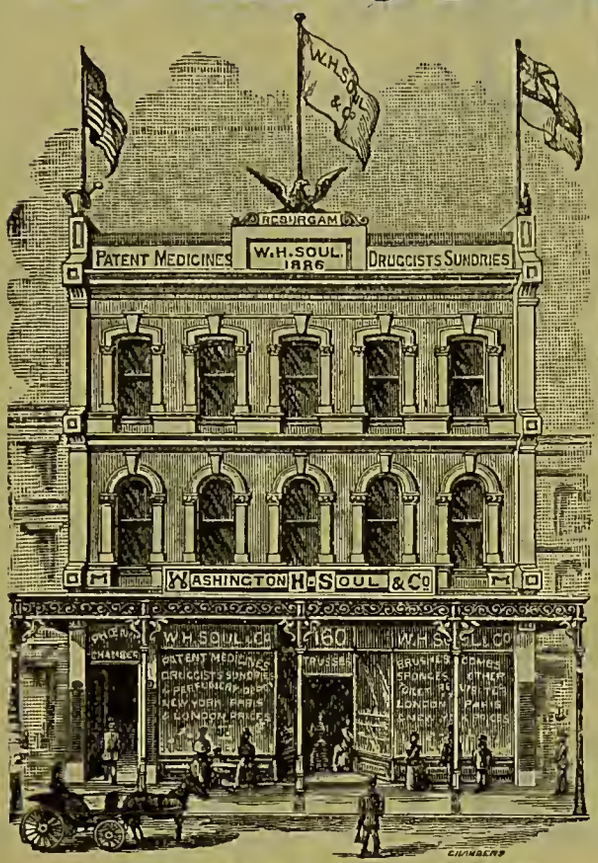

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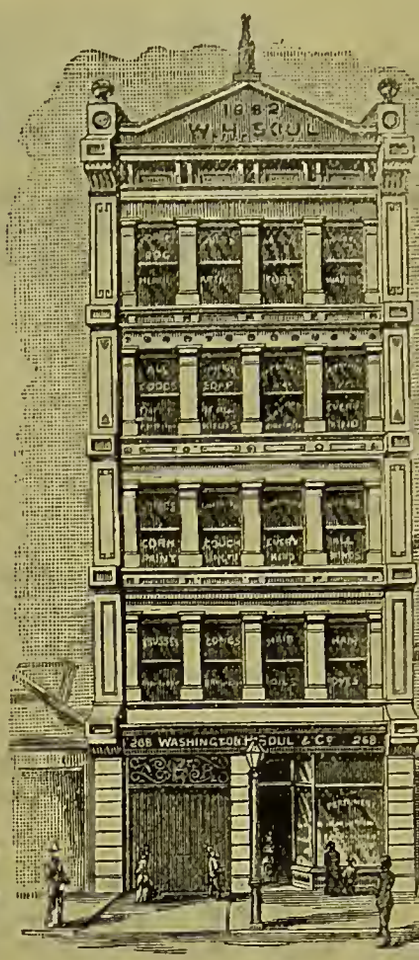

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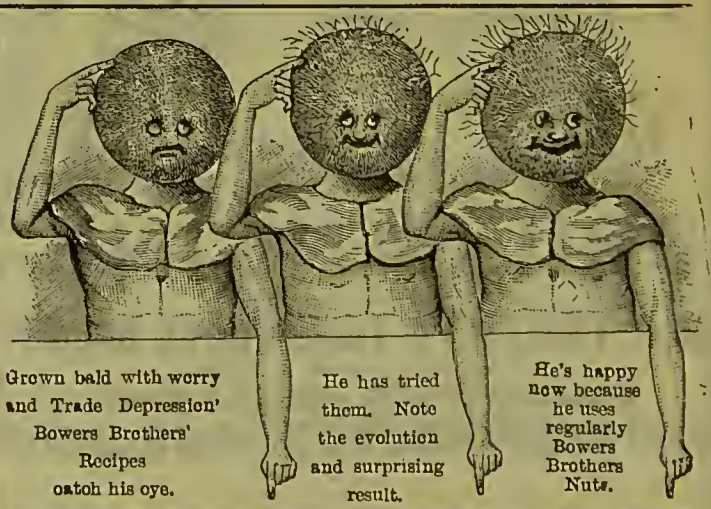
FULL-SIZED SAMPLE TIN OF "DORINA" NURSERY BISCUITS

H. B. CHIBNALL, HAMMERSMITH.



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SOZIO AND ANDRIOLI,

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GRASSE (FRANCE)

FRENCH ESSENTIAL OILS:

Neroly, Lavender, Geranium, Orris, Patchouly, Thyme, Rosemary, Spike, Santal, &c.

NEW CROP.

Oil of Neroly, Rose Water, and Orange Flower Water.

SAMPLES AND QUOTATIONS ON APPLICATION.

FRENCH PERFUMES

OUR WELL KNOWN AND VERY SUPERIOR COMPOSITIONS

STOCK KEPT IN LONDON.

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IMPORTER OF

Musk Civet Ambergris Attar-of-Rose

ESSENTIAL OILS

Wholesale and Export only

APPLICATION ON QUOTATIONS AND PRICE LIST

TO WHOLESALE AND EXPORT TRADES.

W. RANSOM & SON

(ESTABLISHED HALF A CENTURY),

MANUFACTURING PHARMACEUTICAL CHEMISTS,

Distillers of Essential Oils and Cultivators of Medicinal Plants,

HITCHIN, near LONDON.

SPECIALITIES:—

SOLID AND LIQUID EXTRACTS. EXPRESSED JUICES. ESSENTIAL OIL OF LAVENDER.
ESSENTIAL OIL OF PEPPERMINT. SCAMMONY RESIN. JALAP RESIN.
ELATERIUM. MERCURIAL PILL AND OINTMENT. DRIED MEDICINAL LEAVES.
ENGLISH ACONITE ROOT. ALOIN. ENGLISH DANDELION ROOT.

All Standardised Preparations of the British Pharmacopœia are tested and corrected by our Analyst before leaving the Laboratory.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils and Dried Herbs of Superior Quality. Also Award at the Paris Exhibition, 1867.

To the Chemists and Druggists of Great Britain and Ireland.

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We have much pleasure in drawing your attention to the fact that we have considerably enlarged our Premises; this, combined with an increase of our Staff, which now numbers over 300, enables us to execute all orders, whether received by post or through our Representative, THE SAME DAY.

Abdominal Belts, Obstetric Binders, &c., form no exception to this rule, as we manufacture them on the premises, and can make any "SPECIALS" without delay.

We give prompt attention to "wire" and "telephone" orders.

We do not stock Drugs and Chemicals, but shall be pleased to obtain from any of our Drug friends in Liverpool and invoice at List Prices. We are always glad to receive any Enclosures, either from Drug Houses or any other firms.

With best wishes, and thanking you for a continuance of your orders,

We are, faithfully yours,

AYRTON & SAUNDERS.

Postal Address: "Ayrton & Saunders Liverpool."

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Summer is with us again. Look up your Stocks if you want to be in the Race.

SALINE.

Purest Ingredients.
Effervesces well.
Keeps well. Acts well.

8-oz. Plug Stoppered Cheltenhams, each in hand some cartoon ... ... 8/- doz.
4-oz. Tins with coloured labels, no name on labels 3/- „
Bulk ... ... $9\frac{1}{2}d.$ lb.
6 doz. 8-oz., buyer's own name on cartoons.

LAVENDER WATER, BOUND TO SELL.

In Conical
Dark Green Bottles,
½-oz. Capacity,
WITH SPRINKLERS.
1 dozen on Card,
24/- gross.
2/2 dozen.

GAZOGENES.

Fevre's System.
Best Quality.

	2,	3,	5,	8 pint.
Wire covered	6/6	7/3	10/3	15/3 ea.
Cane „	...	8/-	11/3	17/- „

SPECIAL PRICES FOR ORDERS OF ONE DOZEN.

LIQUID CARBOLIC ACID.

97 to 98 per ce
In Dark Green Round-edge Plug-stoppered Bottles, 4/- doz.
Each Bottle in Cartoon, 4/6 doz.
Labels bear no Name, only "Acme Brand."

SEIDLITZ POWDERS.

Howards' Soda Tart.
English Acid.

Well wrapped, full weight as B.P.

Don't waste your time putting these up,

But send us an order for 1 gross boxes with your name on label.
52/- gross.

Special Prices for large quantities and Loose Powders.

GRANULAR EFFERVESCING CITRATE MAGNESIA.

Good quality, well Bottled, Paper Seals on Cork.
6-oz. Dark Blue Flats ..... 3/- doz.
½-lb. White Glass Kalis ..... 3/9 doz.
½-lb. do. do. ..... 6/6 doz.
1-lb. do. do. ..... 10/9 doz.
Special Quotations for Quantities, and in Bulk.

EUREKA SPATULAS.

Won't Rust. Why?

Because they are a steel knife coated with vulcanite. Acids don't spoil them.

3	4	5	6	7	8	9	10 inch.
17/6	20/-	23/-	28/-	36/-	43/-	50/-	62/- doz.

CARBOLIC POWDER.

15 per cent. ACID.

Labels and Tins bear no Name, only "Acme Brand."

1*d.*, attractively wrapped, ½ gross in box, 6/6 gross.
4*d.* do., Tins, 2/- doz.
6*d.*, Decorated Tins, large size, 3/6 doz.
1*s.* ditto, 6/6 doz.

BATHING CAPS.

SATIN.

Assorted Colours.

Full size, 8/- doz.

A very special line, and only a limited number at this price.

Usual price, 16/-

New Accounts must be accompanied by Remittance or London Reference.

HOCKIN, WILSON & CO.

13 to 16 New Inn Yard, 186a Tottenham Court Road.

GLASS BOTTLES

OF EVERY DESCRIPTION.

Revised Price List on Application.

FEEDING BOTTLES AT LOW RATES.

Write for Prices of any kind of Bottle required to

E. YOULDON,

East London Glass Bottle Warehouse,

36, 38, & 40 GREAT GARDEN STREET, WHITECHAPEL, LONDON, E.

The most complete and central Showroom of all classes of

BOTTLES

WILL BE FOUND AT

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Inspection and Correspondence invited by

JOHNSEN & JORGENSEN.

NEW CAPSULING MACHINE

The only Machine which leaves no crease or pleat on the Capsule.

Can be fixed to any Counter. A single pull of the lever is sufficient to fix the Capsule.

Patentee—C. MELIN, 37 Crutched Friars, LONDON, E.C.

STOKES'

CASH TILL.

REDUCED PRICE

50/-

(Sent on Trial seven days, on receipt of two references).

Particulars and Testimonials on application.

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HANLEY, STAFFS.

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(Ceresine Wax Refiners and Carnauba Wax Bleachers)

GUARANTEED PURE

CERESINE WAX

Can now be had in single cases from their London Stock.

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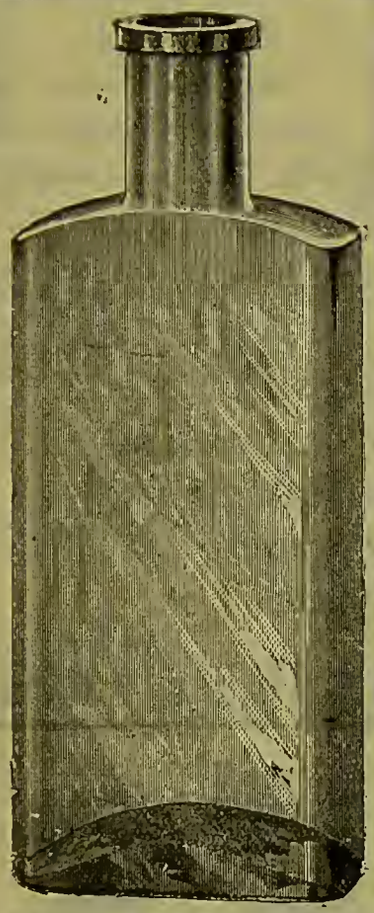
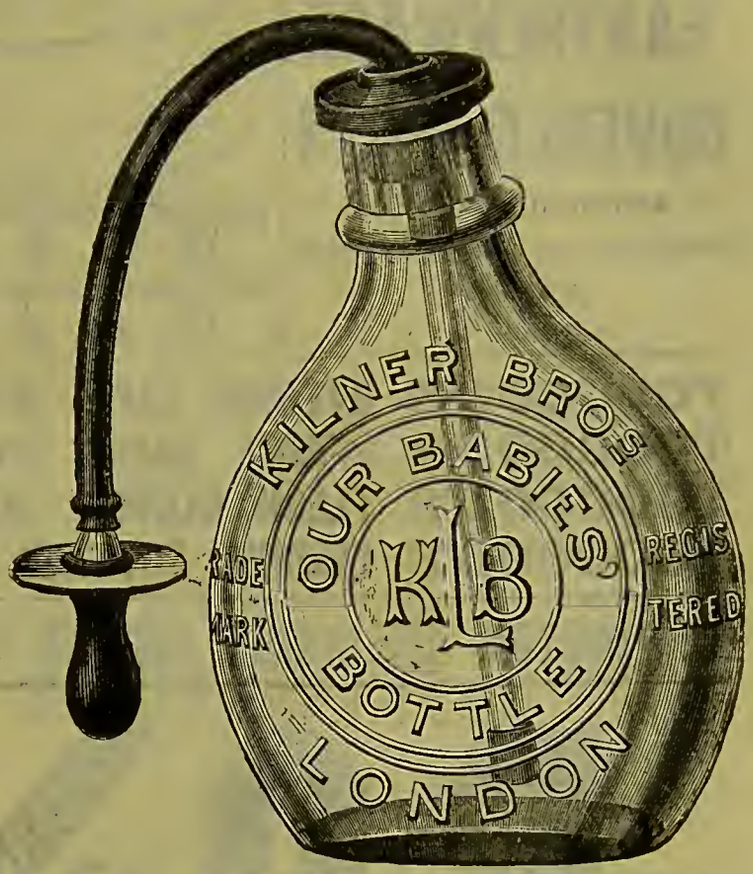
GLASS BOTTLES



FLAT—with Round Edges.



ALL SIZES, SHAPES, AND COLOURS.

DISPENSING BOTTLES.

BEST QUALITY,

SUITABLE FOR A HIGH-CLASS TRADE.

GREEN FLINT.

Flats (ordinary and round edges), Ovals, Direct Squares, Rounds and Octagons (plain, graduated, and lettered),

3	4	6	8	12	16 oz.
10/-	10/-	11/6	11/6	16/6	21/6 per gross.

WHITE VIALS (Plain and Graduated),

½	1	1½	2	3	4 oz.
4/4	4/6	5/3	6/-	8/-	9/3 per gross.

A second quality supplied at lower prices.

SAMPLES ON APPLICATION.

FEEDING BOTTLES.

No.	6½-inch Rubber Tube.	Small lots.	2-grs. lots.	
1.	Green Bottles, Boxwood Top Corks, White Fittings	25/-	24/-	per gross.
3.	Ditto, Black Fittings	27/6	26/6	per gross.
	White glass 2/6 per gross extra. China tops 1/6 per gross extra.			per gross.
64.	Green Bottles, Glass Screw Stoppers, White Fittings	30/-	29/-	per gross.
66.	Ditto, Black Fittings	32/6	31/6	per gross.
	White Glass 3/- per gross extra.			per gross.

These prices include 1 doz. partitioned Wood Boxes. If Bottles are loose 1/9 per gross less.

Supplied each Bottle in Cardboard Box at 4/6 per gross extra.

SPECIAL QUOTATIONS TO LARGE BUYERS.

Revised Price List (Illustrated), containing full particulars of above and many other kinds, sent on application to

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No. 3 GREAT NORTHERN GOODS STATION, KING'S CROSS, LONDON.

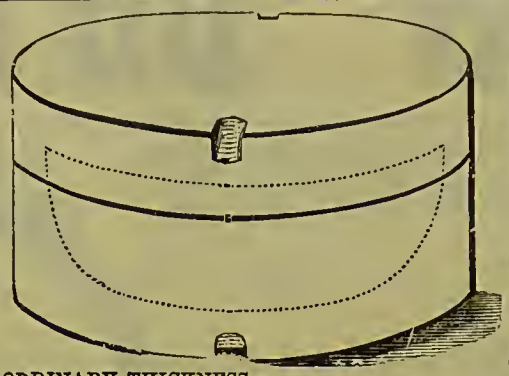
WILLIAM TOOGOOD.

TOOGOOD'S

IMPROVED PATENT

EARTHENWARE COVERED POTS

Are claimed to be the most perfect and convenient yet offered to the Trade.



Owing to the increasing demand for our Patent Pots, we have introduced a Special THIN Series for Dispensing.

These Pots are beautifully glazed and finished, and, being very light, are specially adapted for sending by post.

	1 dr.	2 dr.	½	¾	1	1½	2	3	4	6	8 ounces.
ORDINARY THICKNESS—	1/6	1/6	1/6	1/8	1/10	2/-	2/3	2/10	3/6	4/6	5/6 per doz.
THIN FOR DISPENSING—	½	¾	1	1½	2	3	4	6	8 ounces.		
	1/7	1/9	2/-	2/2	2/5	3/-	4/-	5/-	6/- per doz.		

TOOGOOD'S BATHING CAPS. *Write for New Season's List.*
TOOGOOD'S SPONGE BAGS. *Write for New Season's List.*
TOOGOOD'S FLESH GLOVES. *Write for New Season's List.*
TOOGOOD'S FEEDING BOTTLES. *Write for Special List.*

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ESTABLISHED 1839 ESTABLISHED

ROUND, OVAL, SQUARE, or FOLDING, for the

DRUG, DRYSALTERY, AND CONFECTIONERY TRADES.

LABELS, WHEN PRINTED TO OUR INSTRUCTIONS, WE PUT ON PILL AND OTHER BOXES FREE OF CHARGE.

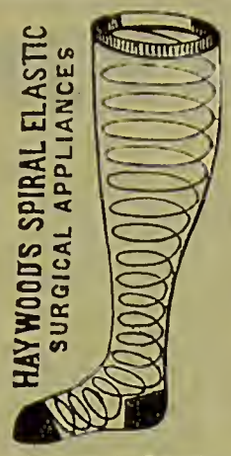
BOXES AND CASES FOR

Baking Powder, Black Lead, Bottles, Camphor Ball, Capsules, Castor Oil, Cough Lozenges, Dispensing Powder, Eye Ointment, Fancy Boxes, Fuller's Earth, Folding Boxes, Glass Top Outers, Homœopathic Bottles, Insect Powders, Ink Cases, Jewellery, Lozenge, Lip Salve, Magnesia, Metal Paste, Marking Ink, Nipple Shields, Night Lights, Parcel Post, Pastilles, Pills, Potash Tablets, Plasters, Salt Lemon, Seidlitz Powder, Starch Gloss, Soaps, Soda Powder, Syringes, Tapers, Tooth Powder, Violet Powder, &c.

ROBINSON & SONS, LIM., WHEATBRIDGE MILLS & HOLMBROOK WORKS, CHESTERFIELD.

And 55 FANN STREET, ALDERSGATE STREET, LONDON.

Adjustable Stocking. (Patent.)



(*Seamless.*) Patent.

A GOOD PROFIT MAY BE MADE BY SELLING

HAYWOOD'S PATENT SPIRAL SEAMLESS SURGICAL ELASTIC ASEPTIC STOCKINGS,

&c. SOLID or ADJUSTABLE.

They are made on an entirely different principle to those *hitherto sold.* The India-rubber Thread, woven in one continuous length, adapts itself to the shape of the limb, and gives equal pressure throughout.

There are no *seams* or *binding* to *irritate* the limb. They are made in *healthy workshops,* and each article is thoroughly *disinfected* (by which all morbific agents are killed) and packed in Air-proof Wrappers before being sent out.

Manufactured in SILK, WOOL, THREAD, and COTTON—Fine, Medium, and Stout Qualities.

REGULARITY IN SIZE GUARANTEED.

Handbook of my Manufactures will be forwarded to any Surgical Instrument Maker or Chemist free.

MAGNETIC BELTS AND APPLIANCES.

Elastic Surgical Stockings, Knee Caps, &c.
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Elastic Supports for Lawn Tennis, Cricket, Lacrosse, and other Athletic Sports.

Bath and Rubbing Gloves.
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Poro-plastic Jackets.
Chest Expanding Braces.

Bandages—Indiarubber, Elastic, Lint, Cotton Sayres', &c.
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Hot Water Bottles and Covers, Respirators, Inhalers, Bronchitis Kettles, Throat Sprays, Waterproof Coats, Cloaks and Driving Aprons, Footballs, Shin Guards, and Athletic Appliances, Druggists' Sundries, Invalid and Nursery Appliances, &c.

MANUFACTURER AND PATENTEE—

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A GOOD LINE FOR THE TRADE.

MEDICINE TIME INDICATOR

And POISON PREVENTIVE.

This invention is for use on Medicine Bottles, for recording the time of last dose or when the next dose should be given. It also distinguishes medicine bottles from others containing poisons or preparations **not** intended to be taken. It comprises a label or tablet of paper, upon which is printed a series of numbers from 1 to 12 inclusive. A pointer is arranged in connection with the label so that it might be set opposite any of the numbers to indicate the time when a dose was last taken or when it should be next given. The label is gummed to or suspended from the bottle, or it may be placed in any convenient position in the patient's room if medicine for internal use only is being administered. It enables the patient or nurse to readily distinguish the bottle, thus obviating the liability to accidents, and is valuable for family use, by nurses in hospitals, for travellers, or for general use by Doctors and Chemists.

Special Terms to the Trade. Apply to the Patentee—

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GLASS BOTTLES

GOOD AND CHEAP.

From Stocks in London or direct from the works.

THE NEW SHAPE FLATS,

With rounded edges, or the ordinary kind, plain or graduated.

3 and 4 ounce	8/- per gross.
6 and 8 "	9/- "

WHITE MOULDED PHIALS.

½ oz.	1 oz.	1½ oz.	2 oz.
3/6	3/9	4/6	5/3 per gross.

PANEL BOTTLES.

2 oz.	4 oz.	6 oz.	8 oz.
7/-	8/-	9/-	9/- per gross.

SPECIAL NOTICE.—Six gross and upwards of assorted sizes sent Carriage Free to any part of England. Smaller quantities not carriage paid. Sample bottle sent free on application.

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Established 50 years. Bankers—London and Westminster Bank.

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CHEMISTS, DRUGGISTS, AND GENERAL MERCHANTS, LUCKNOW, OUDH, INDIA,

Possess exceptional facilities for the introduction of NEW SPECIALITIES, Patent Medicines, Druggists' Sundries, Perfumery, &c.

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"A thing of beauty is a joy for ever." So is a well-fitted Shop.

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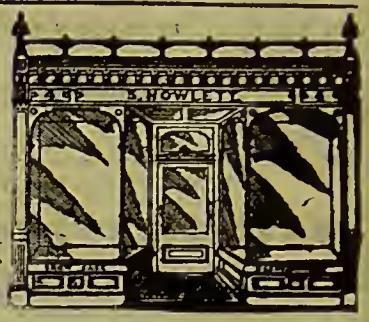
Shop-Front Builder and Show-Case Maker.

EXPORT ORDERS CAREFULLY PACKED AND SHIPPED.



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A LARGE STOCK of New and Second-hand Fittings and Cases to be sold very CHEAP.

CABINET FITTER to the Pharmaceutical Society of Great Britain.

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TO CHEMISTS AND DRUGGISTS.

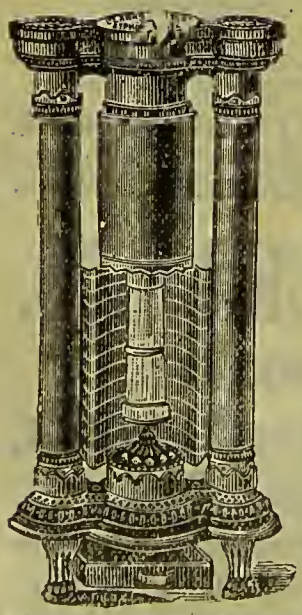
AGENTS WANTED FOR THE SALE OF

"THE SYPHON" (REGISTERED TITLE) HYGIENIC CONDENSING GAS HEATING-STOVES

(CLARK'S PATENT).

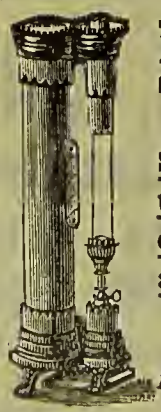
A Necessary for all Invalids. A Comfort to Everybody.

NO FLUE REQUIRED. FREE FROM SMELL OR SMOKE.



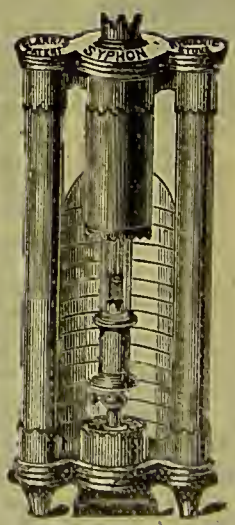
All injurious vapours are reduced to harmless liquid inside the Stove, and passed out at foot into a tray provided for that purpose.

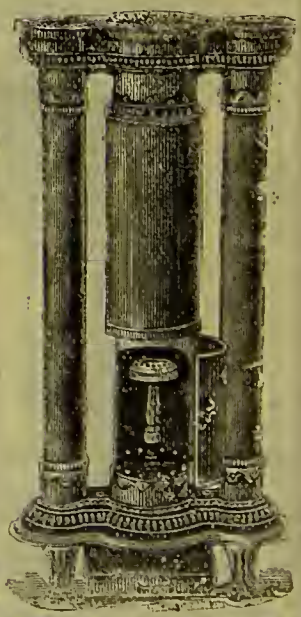
For use in Hospitals, Sick Chambers, Bedrooms, Halls, Conservatories, Schools, Shops, &c.



They give a Pure, Equable, and Agreeable Heat, which can be graduated and sustained at the will of the user.

Specially suitable for patients suffering from Bronchial affections, as a moist atmosphere is obtainable when required.





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IS THE CHEAPEST PURE OIL ON THE MARKET.

Wholesale only.

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Wholesale and Export Druggists before buying elsewhere should apply to

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Bromley's Gout & Rheumatic Pills WILL CURE.

Estab. 1807.

FREE Printing of Chemists' own Circulars.

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CHEAPEST. *Retail Profit* £1 on £3. Full retail prices absolutely guaranteed.

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MOUSQUETAIRE

A bright Fixing Liquid for the special training of the MOUSTACHE. Invaluable to Medical Men, repelling infectious miasma from the respiration. In Cases, with Brush, Pom.-Hongroise, &c., at 2/-, 3/6, 5/-, 7/6, &c.

Most successful Novelty, 2/- sample post free 15 stamps.

All Wholesale Houses, or direct from

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Parfumeur-Chimiste, Amersham Park, New Cross, LONDON.

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THE "MORSTADT" **Cachets**

Are the most digestible, flexible, and elegant in the market, and are fast replacing all competitors. The Cachets are made to hold from 3 to 18½ grains Quinine or Salicylic Acid.

MORSTADT" CACHET CLOSING APPARATUS, to easily and speedily close 12 Cachets at one operation, from 12/- to 30/-.

SMALL APPARATUS, to fill and close 1 Cachet at a time, from 2/6 to 6/6.

THOMAS CHRISTY & CO., 25 Lime Street, LONDON, E.C.

IT WILL COST NOTHING

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CHEAPEST SELLERS IN THE MARKET.

ALSO CHEMICALS, DRUGS AND OILS.

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ORCHARD'S POISON ALARM SIGNAL.

Patented in England, America, France, and Germany.

A simple preventive of Accidental Poisoning consisting of a Bell attached to a Cork, which tinkles when removed from the Bottle. All Chemists should adopt this Signal. The cost is only 1*d.* each, not worth considering in view of its great advantage. Sold at 12/- per gross, in ½ and 1 gross packets, from all Sundry Houses.

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CHEAPEST HOUSE FOR THE FOLLOWING:—

Pot. Bromide	Sugar of Milk
Do. Iodide	Acid Boracic
Do. Permanganate	Iodoform

S.V.R. in 40-gallon drums, pure tinned.

JUNE'S HEALTH BATH SALT.

A new refreshing and invigorating preparation which meets with a ready sale wherever introduced.

GOOD PROFIT GUARANTEED.

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ANDERSON & CO., 165 FENCHURCH STREET, E.C.

STONE JARS AND BOTTLES

OF ALL DESCRIPTIONS

FOR DRUGS, EXTRACTS, CORDIALS, ESSENCES, &c.

Stone Bottles for Ginger Beer, Furniture Polish, Blacking, &c.

PRICE, SONS & COMPY.

OLD STONE WARE POTTERIES, BRISTOL.

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ARE THE SIMPLEST & BEST. Time & Instantaneous **SHUTTERS**

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Time & Inst., from 18/6; Snap Shot, from 10/-; Focal Plane, from 35/-

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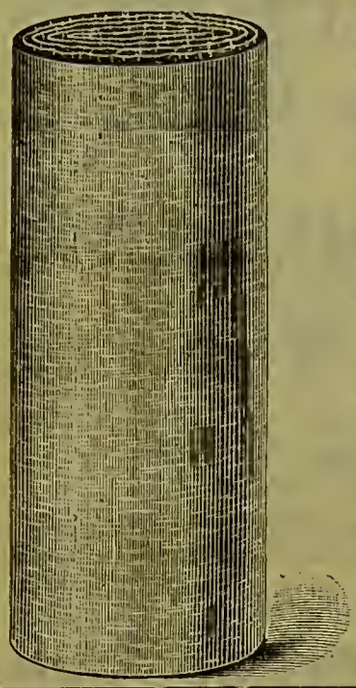

These consist of rolls or bandages coated with Sulphur. When a light is applied to either end of the "Sulphugators," they immediately take fire and burn with a long blue tongue of flame until all the Sulphur is consumed.

They may be burned to the best advantage in the small perforated metal cages which are specially constructed for the purpose, and one of which is enclosed in each box of "Sulphugators." Any suitable vessel, such as an old tin box or saucepan, or frying-pan, or small flower-pot, however, will suffice.

As an extra precaution against fire, the vessel in which the "Sulphugators" are burnt may be stood in another shallow vessel of water, or a little water may be even placed in the vessel in which the "Sulphugator" is burned. In the last-named case, however, there is a small loss of fumigating power, as some of the Sulphur will remain unconsumed in the water.

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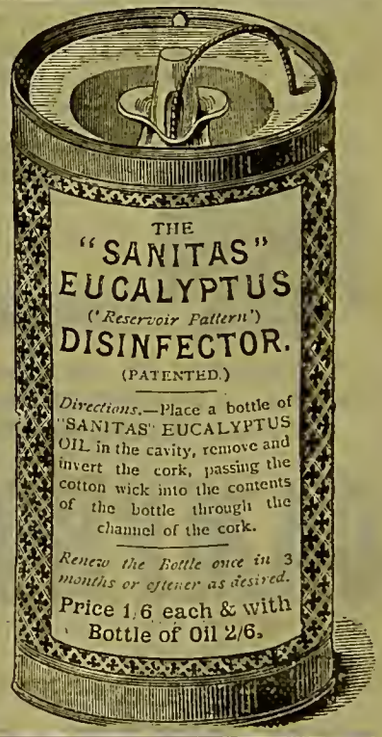
(PATENTED).



This appliance is constructed on the same principle as the ordinary "Sanitas Eucalyptus Disinfector," but it is much larger and is provided with a Reservoir of the "Sanitas Eucalyptus Oil" in the shape of a Bottle of that liquid, which is placed in the cavity of the absorbent diffuser. The latter is fed with the Oil by means of a wick which is inserted in the diffuser, and should be placed in the contents of the bottle, passing through the channel of the reversible cork with which the latter is specially provided.

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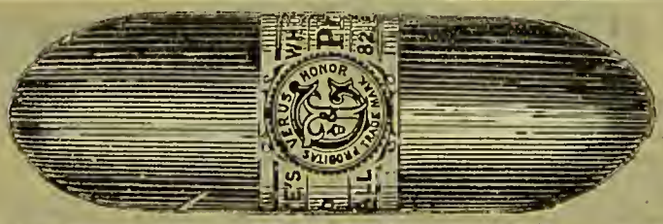

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Major.

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Mr. J. TURNER, Sheffield.

Minor.

Mr. J. HAGUE, Lincoln.
" E. G. ROBINSON, Carlisle.
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That **LARGE CONSUMERS** can be supplied with well designed and well printed **SHOW CARDS, WRAPPERS, LABELS, LEAFLETS, HAND-BILLS,** and every kind of **PLAIN & COLORED PRINTING** **at Low Prices.**

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By D. ELLIOTT.
1891.
NEW EDITION. Revised according to the latest Edition of the British Pharmacopœia, 1890. Pocket size, bound in leather, price 3/.
This Edition can be used as a Telegraphic Code by required.

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For Entering Trade Receipts and Expenses.
(Specially adapted for Chemists.)
Eighth Edition, Revised, price 8/6.
Or for Three Years with a Three Years' Balance Sheet, bound in one Volume, price 10/6.

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TERMS.

Advertisements in this department must be paid for in advance. From this rule no deviation can be made. Insertions are charged at the rate of ½d. per word, provided the advertiser attaches his name and address, for each word of which he must also pay at the same rate; or if he pays 1d. per word his name and address will be registered and a figure attached to his advertisement. All correspondence referring to that figure must be addressed to "The Publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.," and the figure must be distinctly endorsed upon the envelope. Letters will then be forwarded to their proper destination. A price is counted as one word—as, *e.g.*, £1 10*s.* 6*d.*...

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15 cwt. citrate magnesia, 1 cwt. 58*s.* delivered, 5 cwt. at 56*s.* cwt., drums returnable. Adams, Mansfield.

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Volumetric apparatus, solutions, and indicators, 20*s.* complete; also microscope, by good maker, 70*s.* "Chemist," 55 Santos Road, Wandsworth.

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For sale, 130 well-tried recipes, neatly copied in book, post, 1*s.* 6*d.* Tully, Chemist, Hastings.

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Chemist's drug-drawers, two nests, 6 ft. by 2 ft., 30 drawers each; one 4 ft. by 2 ft., 20 drawers, mahogany fronts, glass knobs, glass labels, well made, cheap. Govier, 106A Shrubland Grove, Dalston, London, N.

Chemist's mahogany dispensing-case, 4 ft., with written tablet on top, 42*s.* 6*d.*, bargain; 5-ft. mahogany bent plate-glass counter-case, mirror back, display-shelves, serving-tray, 75*s.*, equal to new; mahogany upright case, plate-glass door, mirror back, shelves, and mahogany desk at back, 45*s.* 6*d.* Mills, 203 City Road, London, E.C.

Chemists' shop-fittings, second-hand, great bargains; range of drawers, with glass labels and glass knobs; shelving and lockers, complete; dispensing-screen with mirror centre; glass-fronted counters, desk, and case; bent-glass counter-case; 2 glass wall-cases; shop-rounds, pink ointment-jars, and every requisite for fitting up cheaply; for sale, together or separate. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Wall-fixture, 9 ft. high, 12 ft. long, containing 60 mahogany drawers with gold labels and glass knobs, polished pine lockers below, and shelving above, surmounted by neat cornice, 16*l.*; dispensing counter, 6 ft. long, mahogany and plate-glass, with mirror centre, mirror backs and movable shelves to upper cases, and ebonised backs to corner cases, shelving at back of screen, 14*l.*; 5 ft. mahogany bent-glass counter-case, velvet lined, with display back and serving tray, 5*l.*; and one 4 ft. facsimile, 4*l.*; counter desk and case combined, mahogany and plate-glass, 2 ft. by 2 ft. by 2 ft. 9 in. high, with side screens and movable plate-glass shelves, desk has drawer and lock, highly ornamental, 4*l.* 10*s.*, all equal to new. Matthews, 14 Manchester Street, Liverpool.

Miscellaneous.

Tincture-press, 3-gallon, double-action; very strong; new; only twice used; guaranteed perfect; what offers? Tilley, 66 Marton Road, Middlesborough.

Offers wanted for Maw's No. 3 urinal, new; Chislett's 5*l.* 5*s.* medical battery; Maw's 4-grain pill-machine; pair eight-pound dumb-bells. Saul, Southbourne-on-Sea, Hants.

WANTED.

A small sieve, good condition for tooth-powders, &c. Apply, Sharman, Chemist, Potters Bar.

Plaster of Paris foot, large size, for advertising corn remedy; state price. Walker, Upper Brighton.

Flat circular outside lamp; exchange pair Maw's specie-jars, cost 11*l.* 14*s.* Duck & Son, Chemists, Cardiff.

Thomas's "Medical Dictionary"; state lowest price; also No. 12 composition mortar and pestle. W. H. S., 430 Stretford Road, Manchester.

WATSON & WATES' HOMŒOPATHIC MEDICINES

Commend themselves for their

READY SALE & UNIVERSAL POPULARITY.

SUITABLE SELECTIONS INSURING QUICK RETURNS.

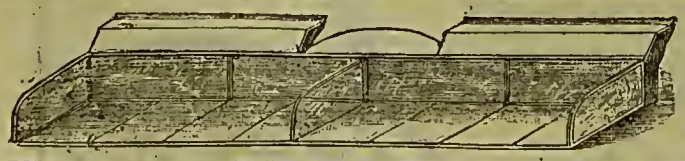
The Leading House for Novelties and Originalities in way of Cabinet Work.

The FIRST to introduce the Vertical "Acme," "Duplex" (or Pay Case), "Pedestal," and "Unique" Cases, absolutely their OWN DESIGNS, the superiority of which is marked by the imitation of other houses.

The above insure the Best Possible Display in little space. Constructed to any position perfectly FREE OF COST. SEE WHAT CHEMISTS SAY.

93 LEADENHALL STREET, LONDON, E.C.

BENT PLATE-GLASS COUNTER CASES.



MIRROR FALLS, VELVET-LINED TRAYS.

5 ft. long, 90/-; 6 ft., 105/-; 7 ft., 120/-; 8 ft., 140/-.

NATALI & CO., 40 Gray's Inn Rd., Holborn, **LONDON, W.C.**

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S. V. R.** *Methylated Spirit and Finish on application.*

FINEST ORANGE WINE FOR QUININE.

Important Notice to Chemists

Wishing to increase their

MINERAL WATER TRADE.

SELL

IDRIS TABLE WATERS

HIGHEST AWARD
CHICAGO,
1893.

SEVERAL
GOLD
MEDALS.

As SUPPLIED by ROYAL WARRANT of APPOINTMENT

TO HER MAJESTY

THE QUEEN.

Samples and Price Lists to Chemists Free.

IDRIS & CO., LTD.

PRATT STREET, CAMDEN TOWN, N.W.

JEWSBURY & BROWN

Have pleasure in announcing that they have removed to New Premises at

ARDWICK GREEN, MANCHESTER,

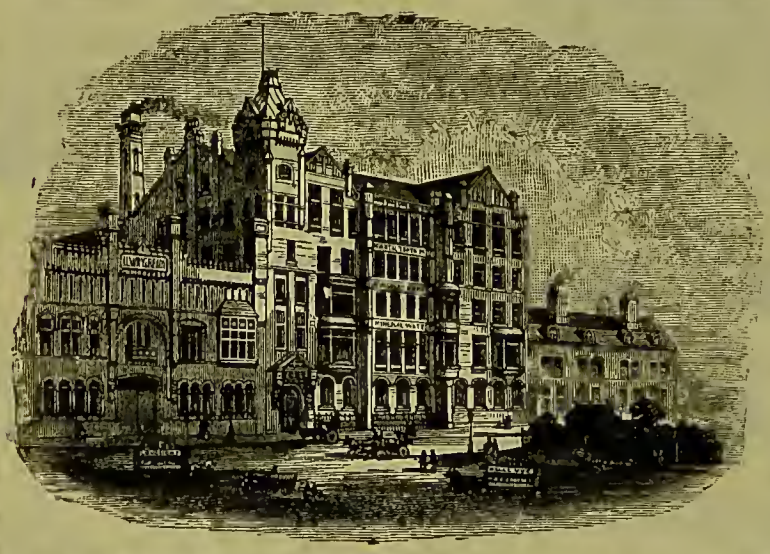
WHICH HAVE BEEN SPECIALLY DESIGNED FOR THE MANUFACTURE OF

MINERAL WATERS,

Aerated Beverages,

AND

BREWED GINGER BEER.



The LABORATORIES, MACHINERY, and APPLIANCES are THOROUGHLY UP TO DATE, and the Water Used comes only in contact with Pure Tin and Slate, thus absolutely avoiding any dangerous metallic contamination. As heretofore, only the Finest Qualities of Materials will be used in every department, relying on the quality of our productions to ensure for them a preference with the consumer who requires a safe and refreshing beverage of absolute purity.

Chemists who have not Stocked these Waters are invited to write for Prices.

CARRIAGE PAID ON RETURNED EMPTIES.

JEWSBURY & BROWN, Mineral Water Manufactory, ARDWICK GREEN, **MANCHESTER**

ORDERS FOR EXPORT AND SHIP STORES RECEIVE SPECIAL ATTENTION.

C.A.M.W.A.L.'S

THE CHEMISTS' AERATED MINERAL WATERS ASSOCIATION LIMITED.

NEW ARTESIAN WELL AT HARROGATE.

Read Dr. ATTFIELD'S ANALYSIS, and judge for yourselves. It will please Members as it does the Directors.

ANALYSIS OF C.A.M.W.A.L.'S WELL-WATER AT HARROGATE.

Dissolved Solids.	Grains per Gallon.
Chloride of Potassium	0·668
Chloride of Sodium	3·513
Sulphate of Sodium	1·260
Carbonate of Sodium	1·016
Carbonate of Calcium	9·188
Carbonate of Magnesium	4·697
Oxides of Aluminium and Iron	0·263
Silica	1·561
Organic Matter	none
Total Dissolved Solids	22·166

ANALYTICAL DATA.—Potassium, 0 350; Sodium, 2·230; Magnesium, 1·342; Calcium, 3·675; Oxides of Aluminium and Iron, 0·263; Silica, 1·561; Sulphuric Radical, 0·852; Chlorine, 2·450; Carbonic Radical, 9·443; Total, 22·166. Carbonic Acid Gas, in solution, as usual in Well Waters.

June 30th, 1894. (*Signed*) **JOHN ATTFIELD.**

From "The Chemist and Druggist" Special Summer No., July 28, 1894.

"CAMWAL WATERS.

"We have hesitated whether to head this paragraph 'Camwal Waters' or "'Camwal Progress,' for both are the subject of the circular inserted by THE "CHEMISTS' AERATED AND MINERAL WATERS ASSOCIATION (LIMITED). "The Association is the most prosperous co-operative body of Chemists ever "founded in England, and it owes its prosperity to the sound methods on which "its business is conducted. Chemists are not such fools as to join an Association "for the sake of the good dividend merely; they must get satisfaction with the "goods supplied, and that is where the Association has scored."

BUSH'S

LEMON OIL.

"Speciality."

TRY IT.

OL. SANTALI "BUSH."

TRY IT.

OL. SANTALI "BUSH."

Artillery Lane, LONDON.

ROYAL SELTERS NATURAL TABLE WATER

ROYAL PRUSSIAN MINERAL SPRINGS.

We hereby beg to announce to the public that we have leased the whole management of the Royal Mineral Springs, at NIEDERSELTERS and FACHINGEN, to Mr. FREDERICK SIEMENS, in Dresden, from the 1st April of the current year onwards. The tenant is bound, according to the Deed of Contract concluded by him, to undertake the bottling as heretofore directly from the natural sources

Without any **addition** thereto or **deviation** therefrom whatsoever.

Wiesbaden, *the 9th February*, 1894.

STATE OFFICE—Department for direct Taxes, Domaine and Forests *v.* Tepper-Laski *v.* Aweyden.

ROYAL SELTERS NATURAL TABLE WATER.

Bottled under the supervision of the Prussian Government.

ROYAL MINERAL SPRINGS,

AT NIEDERSELTERS.

Notwithstanding repeated advertisements and statements not always strictly accurate, no water has succeeded in displacing that of the ROYAL MINERAL SPRINGS, at NIEDERSELTERS (Seltzer Water), from its position as a

NATURAL TABLE WATER,

or in lessening its reputation with the medical profession, or with the public at large. Professors Tichborne and James, authors of the well-known work, "The Mineral Waters of Europe," declare it to be the most celebrated Mineral Water in the world. It is supplied to the public just

AS IT COMES FROM THE SPRINGS,

and herein differs from several waters recently introduced. It is a well-known fact that the waters of MANY SPRINGS are MODIFIED by the ADDITION of CARBONIC ACID GAS, as well as of various SALTS. Such additions and manipulations give an acid and piquant flavour to the waters referred to; but they impart to them the qualities of artificial Mineral Waters, against the use of which Physicians have recently cautioned the public. Natural Seltzer Water requires

NO ARTIFICIAL ADDITIONS.

Its natural constituents (alkaline, carbonates, and chlorides) give it the refreshing quality which assists in allaying thirst, and the carbonic acid gas, which is slowly given off, renders it very pleasant to the taste and grateful to the stomach. In order to prevent the possibility of any artificial manipulations or additions, the Inspectors of Springs have been directed to allow all persons to visit and view the whole of the works. The tenant is, moreover, bound to bottle the water direct from its source

WITHOUT ANY ADDITION OR ALTERATION.

Seltzer Water is too well known to require any extravagant assertion as to its merits. It mixes well with wine, spirits, milk, and fruit syrups, and once tried is seldom, if ever. discarded. The public may feel assured that the genuine article is being supplied if they find the bottles and jars bear a label with the inscription as below:—

ROYAL MINERAL SPRINGS.

SIEMENS & CO.

SOLE AGENTS AND IMPORTERS—

PICKARDT & COMPANY,

26 REGENT STREET, LONDON, S.W.

CAUTION.

In order to obtain the Genuine Water, purchasers must ask for the

ROYAL SELTERS WATER.

SYPHONS & SELTZOGENES

Messrs. J. BARRE JOHNSTONE & CO., 20 Loftus St., Sydney, N.S.W. Agents for New South Wales, Queensland, and New Zealand.

SODAWATER MACHINERY AND APPLIANCES

BRATBY & HINCHLIFFE LTD

ANCOATS 146 MINORIES

MANCHESTER LONDON EC

81 ROBERTSON STREET, GLASGOW.

PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8 pint.
6/-	6/8	7/6	8/6	10/5	16/- each.

Including two funnels and stopper for charging.

The tops of these Seltzogenes are made of pure block tin, guaranteed

Messrs. NOYES BROS., 43 Queen Street, Melbourne, Victoria, Agents for Victoria, South and West Australia, and Tasmania.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.

MASON'S IS THE ORIGINAL EXTRACT OF HERBS

DON'T BUY IMITATIONS.

MAKES THE FINEST BEVERAGE IN THE WORLD.

All the London Houses Stock our Goods.

INVENTORS AND MANUFACTURERS—

NEWBALL & MASON, Hyson Green Works, NOTTINGHAM.

BARNETT & FOSTER,

MANUFACTURERS.

THE "COMPACT" CONTINUOUS-ACTION SODA-WATER MACHINE.

GOLD MEDAL International Food Exhibition, 1891.
GOLD MEDAL, BATAVIA, 1893.

Specially designed for use where space is an object, and for those having a large retail trade, such as Chemists, Hospitals, Restaurateurs, Hotel Proprietors, &c. They are ready for work immediately, require no fixing, and produce Aërated Waters of the very highest quality at a minimum of cost.

NO DANGER. NO MESS. PERFECTLY RELIABLE.

NOTE.—These Machines are not toys, but thoroughly well-made Machines, and will last many years with hard working. We guarantee to produce a better article with these than any other system adapted for using the Liquefied gas, and at a lower pressure, thus effecting an immense saving in broken bottles, and also reducing risk of accidents.

No. 1 Size, complete with Turnover or Syphon-filling Machine, and fitted with fast and loose Pulleys for driving by power ... ... Code Word (*Compact*) **£60**

Producing Capacity by Hand-power 600 doz. per day.
" " Power 1,200 " "

No. 2 Size, complete with Turnover or Syphon-filling Machine ... ... Code Word (*Tocom*) **£48**

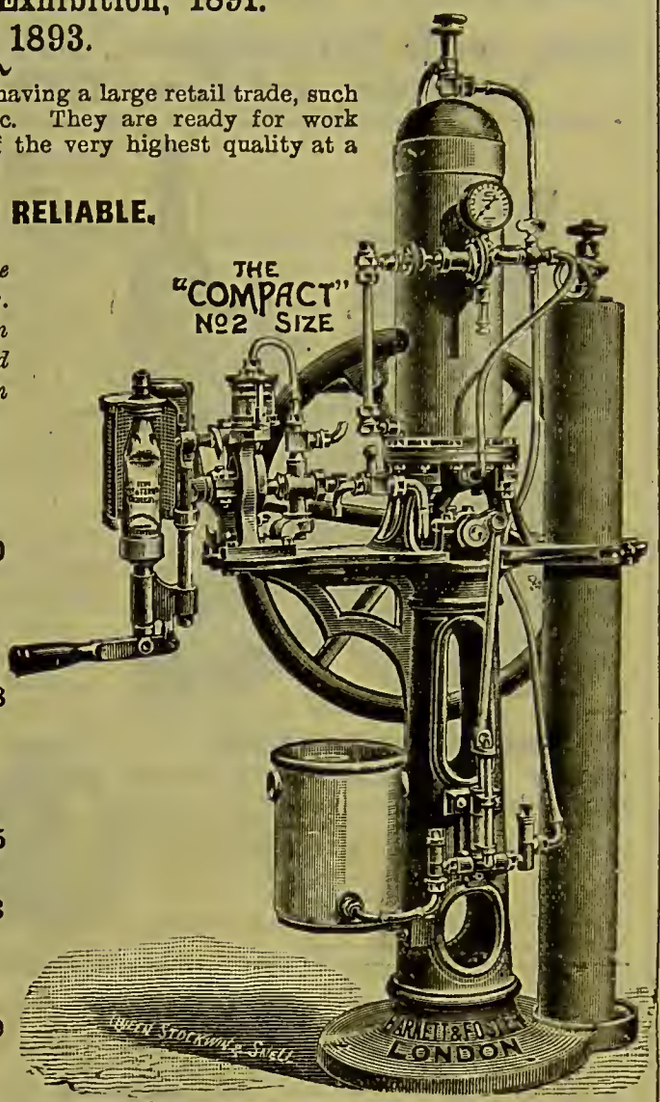
Producing Capacity by Hand-power 350 doz. per day.
" " Power 700 " "

No. 3 Size, complete with Turnover or Syphon-filling Machine ... ... Code Word (*Chemicus*) **£35**

Or without Syrup Pump to Turnover Machine Code Word (*Retailer*) **£33**

Producing Capacity by Hand-power 200 doz. per day.

In use by Leading Chemists in all parts of the United Kingdom.



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"NIAGARA" BOTTLE

IS THE

STRONGEST,
CLEAREST,
AND BEST

Ball-stoppered Bottle in the Market.

SAMPLES FREE.

PRICES ON APPLICATION.

THE

"LONDON-MADE"

SYPHON

Pure Tin Tops and Best Bohemian Glass Vases. The Cheapest, Strongest, Handsomest, and Best in the World.

PRICE 1/6 EACH.

Send for Sample and Compare.

ONE PRICE ONLY, and the BEST QUALITY at that.

NOTE! We are Manufacturers, NOT Agents.

ILLUSTRATED CATALOGUES FORWARDED FREE.

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DAN RYLANDS, LIMITED,

Glass Bottle Manufacturers, Box and Case Makers, Soda-water Machinery Engineers, and General Providers to the Mineral Water Trade.

GLASS BOTTLE DEPARTMENT.

We have had Twenty Years' experience in the making of Globe Stoppered Bottles, and have manufactured more than all other firms in the World put together. Ryland's "Valve," "Reliance," "Acme," and "Original No. 4," are the leading Bottles in the Trade. All our Bottles are made with a patent tool of which we are the Sole Owners, and the grooves produced therewith will be found the most reliable in the market. All Buyers should see that the name of "DAN RYLANDS" and a figure 4 are stamped upon each bottle, in order to ensure our special manufacture and extra strength of glass. The names of our various shapes of Globe-stoppered Bottles are also registered, and should be used by buyers when placing their orders.

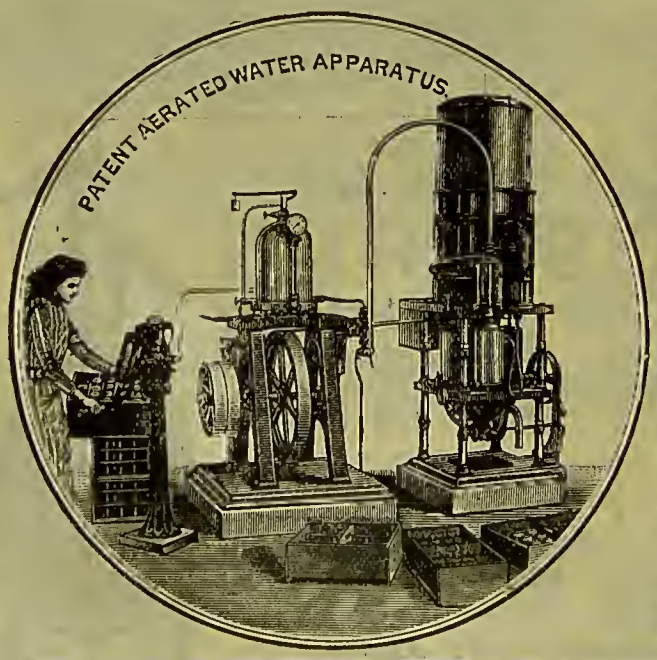
Our Syphon Bottles are of the very first quality, with pure block-tin Tops and strong, brilliant, pressure-resisting glass, elegant in appearance, and of simple construction. All kinds of screw-mouth and cork bottles for the aërated-water trade.

Our patent machine-made "Climax" and other Bottles are accurately made and specially designed for Preserves, Pickles, Confectionery, and for all purposes to which wide-mouth Glass Vessels can be applied.

ESSENCE DEPARTMENT.

Our Essences, Tinctures, and other ingredients are prepared by the Standard Essence Co., for whom we are sole agents. Their superior preparations are produced by a process which preserves the full natural aroma of the Fruits. These essences are highly concentrated, of exquisite flavour, and absolutely pure.

Essential Oil of Lemon, Acids, and Colourings of the finest quality and at moderate prices.



SODA-WATER MACHINERY DEPARTMENT.

This Machinery possesses exceptional merits. The Aërated Waters it produces may be relied upon for uniformity of quality, and as regards economy our Patent Plants eclipse all others. They save materials, power, space, labour, time, and money.

We are also supplying our Patent Machines adapted for using Liquefied Carbonic Acid Gas, to all who prefer this system of Aërated Water making. They are strong, simple, easily managed, and reliable.

Our Filling Machines are the most popular and leading fillers in the market. All kinds, for hand or power, for corks or patents. Of our Paragon Fillers there have been **over 4,500 sold.**

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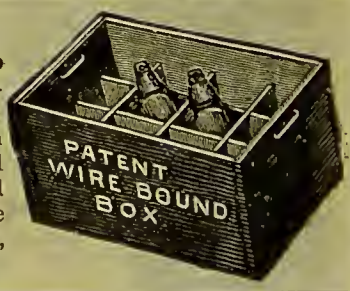
Ryland's Patent Wire-Bound Boxes are far superior to hoop-ironed boxes, which catch and drag against everything they come in contact with. In the wire-bound boxes, the wire lies in a groove and is protected from wet and rust. The wire-bound boxes are the strongest, lightest, and neatest in the trade.



Catalogues and Price Lists free on application.

DAN RYLANDS, LIMITED, BARNSLEY, ENGLAND

VINACOCA.

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail.

ALSO

COCA LIQUEUR

The best Restorative is
ROLLAND'S COCA LIQUEUR.
The best Nerve Tonic is
ROLLAND'S COCA LIQUEUR.
The best Renewer of Health is
ROLLAND'S COCA LIQUEUR.

Sold in Fancy Wickered Bottles, 7s. 6d. each, Retail.

COCA is prepared in various forms: COCA WINE, COCA LIQUEUR, COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, COCA TOBACCO, &c.

SOLE PROPRIETORS OF

THE PARISIAN VAPORISER & EAU DE LIS.

Price 15s. each; Eau de Lis 2s. 6d. per bottle.

Usual Trade Discount. Pamphlets for distribution, carriage paid.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY, 6 CONDUIT STREET, REGENT STREET, LONDON, W.

THE MAWSON FILTERS.

(BY ROYAL LETTERS PATENT).

GLASS, EARTHENWARE, TOURIST POCKET, MAIN SERVICE.

New Illustrated Catalogue and Prof. Tichborne's special report forwarded on application.

THE MAWSON FILTER CO., 137a Pilgrim Street, NEWCASTLE-ON-TYNE.

SOLD BY ALL WHOLESALE DEALERS.

A. MILLAR & CO., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

THOS. GUEST & CO.

City Works, Carruthers St., MANCHESTER.

MAKERS OF ALL DESCRIPTIONS OF MEDICATED LOZENGES.

B.P., T.H. Ph., and General Proprietary Lozenges. Finest Gum Jujubes and Pastilles—Glycerine and Black Currant, &c. Granular and all other Effervescing Preparations. Boiled Sugars, Floral Tablets (1892).

BEFORE BUYING ANY OF THE ABOVE, PLEASE SEND FOR SAMPLES AND COMPARE.

TELEPHONE NATIONAL 235. TELEGRAMS "GUESTO."

LAURENT-PERRIER

Coca-tonic

A high-class Wine and powerful Nerve Restorative

Prepared by Laurent-Perrier, Bouzy-Reims.

2/-, 3/9, and 7/-

Champagne

Chemists are requested to write for Show Tablets, Trade Terms, and Special Plan of Introduction in country and town, to the Sole Consignees—

HERTZ & COLLINGWOOD, 4 Sussex Place, London, E.C.

WHOLESALE.

Chemists are recommended not to let the bulk of the Summer Beverage trade be done by Grocers and Supply Stores, but to do it themselves by making a show of our "CASTLE HORN" brand of

LEMON SQUASH

Made from FRESH LEMON FRUIT, and of Highest Quality.

In Reputed Quarts (6 to gallon).

RETAIL, 1/- PER BOTTLE.

The Largest and Best offered. Very Handsomely Labelled.

NOTE THE FAVOURABLE WHOLESALE PRICES.

In free Wood Cases of 3 dozen each.

For 1 Case	...	8/- dozen,	carriage paid.
„ 2 Cases	...	7/6 „	„
„ 4 Cases	...	7/- „	„

Less than a Case, 8/- dozen with other goods.

The Carriage is paid as above to any station in England or Wales. If to Scotland or Ireland, 6d. per dozen extra.

In each case is enclosed a Lithographed Showcard and packet of Handbills, without our name, showing facsimile of bottle in colours.

Not sent out on sale or return. Above prices are lowest for quantities named.

PROPRIETORS AND MANUFACTURERS—

W. KEMP & SON, WHOLESALE DRUGGISTS, HORNCASTLE.

London Agents—BARCLAY & SONS, 95 Farringdon Street, who will supply large or small lots at above prices, net.

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S

HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., & 2s. each.

GOODALL'S BAKING POWDER.

The Best in the World. 1d. packets; 6d., 1s., 2s., and 5s. Tins.

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One 6d. Tin is equal to 25 Eggs. In 1d. packets; 6d., 1s., and 5s. Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2d., 6d., & 1s. each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3d. and 6d.

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

GOODALL'S LAVENDER WATER.

Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

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1d. Giant " dozen parcels	6/6	8/6
" " ½-gross boxes	7/-	9/-

	Per gross.	Extra quality.
½ Bottles, flat or round, reputed half-pints	16/-	28/-
¾ " " " pints	28/-	38/-
1 Pint Imperial, round stoppered bottles	52/-	62/-
12½-Gallon Casks (*casks free*) each	29/-	32/-

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LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt, and sound Port Wine.

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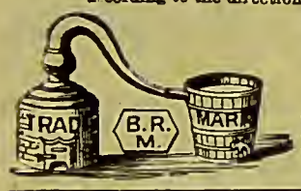
From the results of my Analyses of various **Beef Wines** I have had occasion to examine, none have **equalled** as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. Robinson, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to **Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.**

WILLIAM ELBORNE, F.C.S., F.L.S.,
Lecturer on Materia Medica in the Owens College, Manchester (Victoria University).
December 15, 1888.

Introduced 1855.] **ROBINSON'S CONCENTRATED WATERS.** [Introduced 1855.

One ounce of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopœia, and free from all Chemical impurity. They will keep good any length of time in any climate.



Aqua Anethi, Concent., 4/ lb.	Aqua Cinnam. Ver., Concent., 6/ lb.	Aqua Fœniculi, Concent., 4/ lb.	Aqua Pimentæ, Concent., 4/ lb
" Anisi " 4/ "	" Cassiæ " 4/ "	" Menth. Pip. " 4/ "	" Rosæ " 8/6 "
" Camphoræ " 4/ "	" Flor. Aurant. " 8/6 "	" " Ang. " 6/ "	" Rosæ Virgin " 10/6
" Carui " 4/ "	" Flor. Sambucl " 8/6 "	" " Virid. " 4/ "	

The above are put up in Bottles of ½ lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

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ACIDS
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Sears, F. W.

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Ingram & Royle
Jewsbury & Brown
Mills & Co. (Bourns)
Oberbrunnen
Pickardt & Co.

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Wyleys, Lim.

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Speller & Co.
Townsend, J.

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May & Baker, Lim.

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Wandsworth Chemical Works, Lim.

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Nicholls, G. W.

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Hodgkinsons, Treacher &
Howards & Sons (Pharm.)
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Lorens, H.
Macfarlan, J. F., & Co.
May & Baker, Lim.
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Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

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O'Brien, Thos.
Stokes, G. R., & Co., Lim.
Voucher Check Till Co., Lim.

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National Chemical Co.

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Stearns, F., & Co.

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Izal
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Wood, Vincent

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Crawshaw & Co.

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Sanger & Son
Wood, Vincent

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Corsan, J. R.

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Burgoyne, Burbidges & Co.
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Hodgkinsons, Prestons & King
Jeris & Co., Lim.
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Newball & Mason
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Woolley, Sons & Co.

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Hodgkinsons, Prestons & King
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Spurway & Co.
Stevenson & Howell
Symes & Co.
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Widenmann, Broicher & Co.
Wright, Layman & Umney

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Howards & Sons
Macfarlan, J. F., & Co.
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

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Kuhn, B.

EUCALYPTUS
Laughland, Mackay & Baker

EXALGINE
Kuhn, B.

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Brand & Co.
Idris & Co. (Viking Co.)
Liebig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

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Burgoyne, Burbidges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd, T. Howard, & Co.
Moss & Co.
Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Richardson, J., & Co., Lim.
Stearns, F., & Co.
Wright, Layman & Umney

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Ransom, W., & Son
Stearne, F., & Co.

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Chemists' Association, Lim.
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Gilbertson, H., & Sons
Hearn, Wright & Co.
Hockin, Wilson & Co.
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Marriott, E., & Co.
May, Roberts & Co.
Maw, S. Son & Thompson
Shirley Bros.
Surrey Packing Co.
Youldon, E.

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Mawson Filter Co.

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Ford, Shapland & Co.
Marshall, E.
Mather, W., Lim.
May, Roberts & Co.
Silverlock, H.
Stack, W., Exors.
Strong, Christy
Tidman & Sons
Tunbridge & Wright

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Bovril, Lim.
Brand & Co.
Cerebos Salt Co., Lim.
Caibnall, H. B.
Evans, Sons & Co.
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Liebig Co. | Lorimer & Co.
Mason, G., & Co., Lim
Mellin's Food | Nestlé, H.
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Squire's Chemical Food
Viking Food Co.
Wyeth, J., & Bro.

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Fullers Mining Co., Lim.

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Boehm, F.

GINGER ALE
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Chemists' Aerated & Mineral Water Association, Lim.
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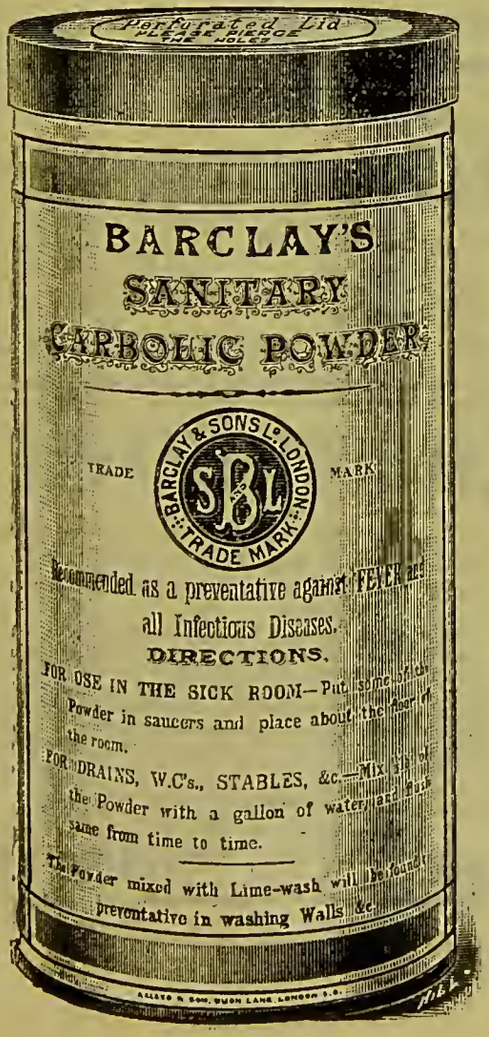

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7	„ Coloc. Co.	10*d.* „	10/- „
9	„ Coloc. et Hyoscy. ...	1/1 „	10/- „
17	„ Rhei Co.	6*d.* „	4/3 „

APERIENT.

45	Pulv. Aloes Barb....	$1\frac{2}{3}$ gr.	
	Pulv. Cambogiæ ...	$\frac{1}{3}$ gr.	
	Pulv. Jalapæ ...	$\frac{2}{3}$ gr.	
	Pulv. Coloc.	$\frac{1}{2}$ gr.	
	Sapo. Cast.	$\frac{1}{3}$ gr.	
	Gingerin...	$\frac{1}{6}$ gr.	9*d.* gross, 4/6 lb.

46 As above, with 1 gr. Hyd. Subchlor. in each Pill, same price.

ANTIBILIOUS.

435	Pulv. Aloes Barb....	2 gr.	
	Pulv. Rhei	1 gr.	
	Pulv. Zingiber. ...	$\frac{3}{4}$ gr.	
	Hyd. Subchlor. ...	$\frac{1}{2}$ gr.	4/6 lb.
346	Pil. Hydrarg. ...	$1\frac{1}{2}$ gr.	
	Ext. Coloc. Co. ...	$2\frac{1}{2}$ gr.	
	Ext. Hyoscy.... ...	1 gr.	12/- lb.

BLAUD'S. (*Martindale's Improved.*)

176 ... ... 6*d.* gross, 4/- lb.

CASTOR OIL.

144	Pulv. Rhei ...	$1\frac{1}{2}$ gr.	
	Pot. Sulph. ...	$1\frac{1}{2}$ gr.	
	Pulv. Saponis ...	$\frac{1}{2}$ gr.	
	Ol. Ricini ...	$\frac{1}{2}$ m.	
	Ol. Croton. ...	1-16th m.	4/- lb.

LITTLE CATHARTIC.

320	Podophyllin. ...	$\frac{1}{8}$ gr.	
	Pulv. Aloin. ...	$\frac{1}{4}$ gr.	
	Ext. Hyoscy. ...	1-20th gr.	
	Ext. Nuc. Vom.	1-20th gr.	
	Jalapin.	1-12th gr.	
	Gingerin.... ...	1-20th gr.	
	Pulv. Saponis ...	$\frac{1}{8}$ gr.	7*d.* gross, 18/- lb.

COUGH.

298	Pulv. Ipecac. Co.	$1\frac{1}{2}$ gr.	
	Gum. Ammon...	$1\frac{1}{2}$ gr.	
	Pulv. Scillæ ...	1 gr.	
	Pulv. Saponis ...	$\frac{1}{2}$ gr.	5/- lb.

LITTLE LIVER.

282	Podophyllin. ...	$\frac{1}{4}$ gr.	
	Pulv. Aloin. ...	$\frac{1}{4}$ gr.	
	Pulv. Aloes ...	$\frac{1}{8}$ gr.	
	Pulv. Saponis ...	$\frac{1}{8}$ gr.	
	Ext. Nuc. Vom.	1-20th gr.	
	Pulv. Zingiber.	$\frac{1}{8}$ gr.	7*d.* gross, 18/- lb.

"SOLOIDS."

For use as Disinfectants in Cholera or other Epidemics.

UNDER this designation we have classed those forms of Compressed Drugs of a highly toxic and dangerous nature, with the object of avoiding confusion with "Tabloids" intended to be taken *per os*. The three "Soloids" referred to below are all intended for the same purpose—viz., the instant production of strongly antiseptic solutions.

THE L. G. B. "SOLOIDS"

Have been prepared at the kind suggestion of Dr. W. Murrell; two "Soloids" on being dissolved in a quart of water make a solution of the strength and character recommended in the Local Government Board Memorandum of 1892. These L. G. B. "Soloids" are highly convenient and rapidly soluble in ordinary well-water, and their peculiar but perfectly harmless coloration and terebinthine odour are safeguards against poisoning by accident or mistake. White fabrics soaked in the "Soloid" solution are stained a very light blue, but this colour is nearly discharged by merely rinsing the fabric in cold water, so that no damage is caused to linen, &c., with which it may come in contact. L. G. B. "Soloids" will be found extremely useful for disinfecting purposes in cases of epidemics.

During the discussion which followed a paper dealing with Public Health, read at one of the sections of the British Medical Association meeting last year, it was evident that the consensus of opinion was in favour of some effectual means for the disinfection of dejecta and liquid sewage before they were allowed to reach the sewers. No less unanimous was the acceptance of the declaration that Mercuric Chloride was the most effective agent for this purpose. The L. G. B. "Soloids" of Mercury Perchloride are eminently adapted to this end, and their handy and portable character will render them all the more useful to Medical Officers of Health and to nurses and attendants upon patients. Their use is very simple, and their solubility such as to enable one to produce almost instantly a solution of high disinfecting power.

Supplied to the Trade in bottles of 100, at 24/- per dozen bottles.

"SOLOIDS" OF IODIC HYDRARG.

This combination of the Iodides of Mercury and Potassium (Mercuric-Potassio-Mercuric Iodide) is said to possess twice the bactericidal strength of Mercuric Chloride, to be not nearly so toxic, not to precipitate Albumen, and not to be liable to cause irritation. Two "Soloids" dissolved in a pint of water will make a solution (1 in 4,000 approximately) sufficiently effective to produce complete asepsis of the hand or of instruments after operation, or for use in obstetric practice.

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May be used conveniently in surgical and gynæcological work for the preparation of solutions for irrigating wounds or the uterine organs. One "Soloid" dissolved in a pint of water will give a solution of which the strength will be 1 in 1,000. These "Soloids" are characteristically coloured and shaped, so as to render mistakes almost impossible.

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A most delightful, emollient and mildly astringent, absorbent Dusting Powder, of soft and silky texture, vastly superior to any drying or dusting powder hitherto known. Speedily dries and soothes in cases of moist, sensitive, inflamed, irritated, or chafed surfaces. Softens and smooths hard and rough skin. A perfect soothing and absorbent powder for toilet purposes, and for prickly heat in hot climates. Efficacious in Eczema and Acne. In cases of eruptions in Scarlet Fever and Measles it relieves irritation.

This powder is a simple, purified, natural product which on analysis is found to be somewhat allied to superior varieties of Fullers' Earth. It contains a considerable percentage of Steatite, Silica, Alumina, and traces of Calcium Salts and Ferrous Oxide. The value of Emol-Keleet in the treatment of skin diseases has already excited great interest in the medical profession. In all cases EMOL-KELEET is perfectly harmless.

EMOL-KELEET, regular size boxes ... ... 8/6 per dozen.

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Notice Pharmacists who pride themselves upon examining the preparations they dispense are invited to apply a few simple dispensing tests to determine how superior the original Liquor is to all its imitations.

Such imitations are invariably unskilfully made, and usually compounded from unsuitable materials.

Caution!!! The name "Liquor Carbonis Detergens" having been registered as a Trade Mark, notice is hereby given that legal proceedings will be taken against any person, firm, or limited company who sell, invoice, dispense, or in any way traffic in any imitation of the original preparation under its registered name.

That there may be every facility for the accurate dispensing of Physicians' Prescriptions, the following sizes of the Liquor can now be obtained unstamped.

2 pints (Glass)	6/- each.	Less usual Trade Discount.
½ gallon (Stone)	11/6 ,,	
1 ,, ,, ...	22/- ,,	

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The Chemist & Druggist SUPPLEMENT.

Businesses Wanted
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SATURDAY, AUGUST 18 1894.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

NOTICE.

The Circulation of this issue of THE CHEMIST AND DRUGGIST SUPPLEMENT exceeds

14,000 COPIES.

It is an unequalled ADVERTISING MEDIUM for Drug Trade requirements.

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8.—£3,000.—**WESTERN COUNTY.**—Good-class Wholesale and Retail: returns between £2,500 and £3,000; situate in the best position in the town: very good residence and business premises; the investment of about £1,800 is required.

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10.—£900.—**BERKSHIRE.**—Good-class Family Dispensing and Retail; returns between £600 and £900 yearly; *profits larger than usual*; double-fronted shop, well fitted; commodious house, long lease; price required £950.

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12.—£900.—**KENT.**—Good-class Dispensing and Retail; situate in an attractive locality within easy distance of London; returns £900 yearly, increasing yearly; well-fitted shop and good stock; convenient house; full investigation permitted; price about £850; part may remain on approved security.

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N.B.—NO CHARGE TO PURCHASERS.

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BOURNEMOUTH.—Splendid shops; 57 ft. by 22 ft.; lavatory, cellars, 13-room dwelling, bathroom, lift, &c.; 2 entrances; part would easily let; unequalled position; central main thoroughfare; low rentals. Curtis & George, Blandford.

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TO Chemists and Druggists.—Corner Shop, Shaftesbury Park, Lavender Hill, S.W.; as a going concern; stock, fixtures, and goodwill at £100; rent £40, or stock and fixtures for sale at a valuation. Apply to Secretary, The Artisans' Dwellings Company (Limited), 16 Great George Street, Westminster, S.W.

TO Chemists.—To Let, from Michaelmas next, small house and shop in Regent Street; low rent: old-established business: new lease will be granted and premises put into thorough repair; fixtures to be taken at valuation. Apply to Fredk. H. Mellnish & Co., 289 and 289A Regent Street (entrance in Margaret Street), W.

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5.—**WEST OF ENGLAND.**—Retail and Prescribing Business; returns £600; low rent, on lease; excellent house, large garden; shop well fitted and stocked; price £400, or offer.

6.—**SURREY.**—Unopposed Light Retail and Prescribing Business, making a net profit of £150 yearly; rent £25; good house, large garden; £150, or valuation; bargain.

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NEAR London Bridge; Prescribing and Dispensing Business, in busiest part; few Patents and no cutting; lock-up shop at easy rent; very profitable trade; £580 required. "Scilla," 122 Queen Victoria Street, E.C.

LONDON, E.—A Chemist's Business for Sale, in a good East-end neighbourhood; shop large and well fitted; house roomy; a capital opening for Dentistry; stock, fixtures, and goodwill for £60. Address, Z., 210 Burdett Road, Bow.

GOOD opening for young man about to commence; neglected business, owing to ill-health; nice country town, 5,000 inhabitants; two others only; no goodwill; no agents. T. E. Young, Myrtle Villas, Hughenden Road, High Wycombe.

TO be Disposed of, a good Retail and Dispensing Business, S.W. district; main thoroughfare; established 60 years; 21 years lease; cash required about £1,400; ill-health cause of sale. Apply, 173/28, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO Small Capitalists.—A good opportunity for securing a genuine Cash Retail and Dispensing Business in London, within the radius; shop well fitted and stocked; trade mostly drugs and own specialties; very few patents; or suitable for a branch; owner taking country business; price, valuation only, about £200. "Carmine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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LANCASHIRE.—High-class Retail and Dispensing; returns £1,46 fine, handsome pharmacy and valuable stock.

HOME COUNTIES.—Partnership, with view to succession, in goo class Family business; full particulars upon application.

SOUTH COAST.—Good-class Dispensing Business; returns £60 net profit £230; fine large house, well situate on the sea-front.

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DEVONSHIRE.—In fashionable health resort; Dispensing Busine returns £400; low rent; price £350 or offer.

LONDON, WEST END.—High-class Family trade; returns £1, at full prices; net profit £400; fine handsome pharmacy, well stocked, & price, small premium for goodwill and valuation of stock and fixtures.

SOUTH LONDON SUBURB.—Family and Dispensing Busine returns £500; price £450.

LONDON, W.—Returns £400; net profit £200; price £385; this i profitable Prescribing trade, well situate in busy thoroughfare.

NO CHARGE TO PURCHASERS.

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Businesses for disposal at Bradford, Stamford, Torquay, Worcester, De Preston (2), Manchester (3), Boston, Pembroke Dock, Cleethorpes, W field, Scarborough, Barnsley, Blackburn, Wolverhampton, Newton Ab Bury, Cheshire, Paddington, York, Croydon, Bradford (Botanical), Oldb Liverpool (2), Accrington, Horwich, Redditch, Huddersfield, Skip Sheffield, Southport; also a good Dental Practice in Yorkshire.

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Telegraphic Address—"TOMTOM."

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FOR Sale, first-class Dispensing and Retail Business; finest position a good town; shop well fitted and stocked; owner retiring, v will accept valuation (about £1,200). For particulars, apply, 174/14, Of of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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WINDSOR.—Centre of best business street; a large old-establis Retail and Prescribing Business, with Gilbey's Agency attac good scope; long favourable season; in present hands 40 years; ve retiring. Apply to J. P. Boyce, Chemist, &c., Peascod Street, Windso

LINCOLNSHIRE.—For immediate disposal (owner taken la business), old-established country Business; average returns, £ sell at valuation; stock can be reduced if necessary to suit purch large keep-dipping trade can be worked up; no agents. Apply, "Pi Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

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LOCUM, Dispenser, or temporary Assistant; aged 25. W. T., 42 St. Mary's Road, Faversham.

QUALIFIED Assistant; 24; high-class Store preferred. Evans, 50 Duncan Terrace, Islington.

ASSISTANT; outdoors; 29; unqualified; good references. Fuller, 1 Gladstone Terrace, Preston.

MANAGER of Branch; married; Minor. "Phenacetin," 41 Crete Street, Kirkdale, Liverpool.

PART-TIME (23); 6 years' experience; outdoors desired. "Studens," 22 Markham Square, Chelsea.

QUALIFIED; 7 years' experience; disengaged Sept. 1. Cranston, Margaret Road, New Barnet.

DISPENSER (Surgeon's), Locum; aged 27; disengaged. "Rhel," 68 Blenheim Road, Gloucester.

ADVERTISER, aged 23, wishes engagement; excellent references. M., Post Office, Quin, co. Clare.

MANAGER, Locum-tenens, Dispenser; qualified; married. "Hydrarg.," 109 Stuart Street, Luton, Beds.

LOCUM or Manager; liberty August 21; experienced; reliable. "Nemo," 40 Bolton Street, Bury.

ASSISTANT; in London or suburbs; time for study; experienced. "Assistant," 320 Regent Street.

TO Surgeons, &c.—Dispenser and Bookkeeper; thorough. "Medicus," 47 Beechcroft Road, Leytonstone.

LOCUM; 41; disengaged September; good references. F. G. Shrimpton, 6 Grove Street, Oxford.

ASSISTANT; 20; disengaged; good references. "Sulphonal," Chapel House, Forton, Garstang, Lancashire.

OUTDOORS; qualified; experienced; moderate terms. "Chemist," 3 Beaconsfield Road, South Tottenham.

WHOLESALE; Wet Counter; experienced; good references. Downes, 27 Muriel Street, Caledonian Road, N.

ASSISTANT; Major; aged 23; good experience; disengaged. R. O., 38 Richmond Road, Montpellier, Bristol.

ASSISTANT; aged 22; height 5 ft. 10½ in.; 8 years' experience; good references. Munton, New Street, Oakham.

TEMPORARY Manager or Senior; qualified; disengaged August 30. "Locum," Perry, Chemist, Congleton.

TRAVELLER, experienced, seeks re-engagement; North or Ireland. "Opus," 66 Wykeham Street, Scarborough.

JUNIOR (21); good experience; Extractor; disengaged. Apply, "Junior," 24 St. Helen's Street Carnarvon.

BRANCH Manager or Locum; qualified; good experience; aged 36. "Statim," 11 Upper Lewes Road, Brighton.

AS Assistant, Manager, or Dispenser, by qualified Chemist; aged 42. S. Hassall, 143 Charles Street, Hanley, Staffs.

ASSISTANT; 22; 6½ years' experience; outdoors; disengaged; London. Moore, 1 Gowan Avenue, Fulham.

QUALIFIED Branch Manager, Locum, or Assistant; middle-aged; trustworthy. 36 Wrexham Fechan, Wrexham.

ASSISTANT, in good Mixed Business; Prescriber; experienced; energetic. Allen, 33 Inner Street, Grantham.

PART-TIME; London; outdoors preferred; 22; disengaged. "Statim," Brantham House, Manningtree, Essex.

ASSISTANT, or part-time for study; excellent references; London experience. Rnxton, Howard Street, Arbroath.

WHOLESALE or Retail; thoroughly experienced; married; disengaged. "Chemicus," 5 North Street, Ilkeston.

ASSISTANT; 25; first-class experience and references; unqualified. J. A. Sargent, 7 Alfred Place, Bedford Square, W.C.

ASSISTANT; good Counterman, Prescriber, &c., speaking Welsh. "Exalgine," Peartree Lodge, Calbourne, Isle of Wight.

SENIOR or Manager; 29; married, no family; Prescriber, Dispenser, and Counterman. D., 42 Gordon Street, Northampton.

LOCUM-TENENS; £2 per week; abstainer; aged 27. 172/33, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AS Assistant; outdoors; thoroughly competent and reliable; disengaged. "Beta," 5 Church Street, Camberwell Green, S.E.

ASSISTANT; 26; first-class Counter and Dispensing experience. "Medicus," c/o Treharne Howell, Chemist, Newport, Mon.

MANAGER; qualified; first-class experience; Allopathy, Homœopathy, Photography. "Minor," Gronow, Blackwood, Mon.

ASSISTANT; tall; qualified; experienced; Photography; North; outdoors; excellent references. Hodgkin, Treales, Preston.

WANTED, engagement, Junior Dispenser or Counter; personal application in London. "Argentund," 20 Fabian Road, Fulham.

JUNIOR; 20½; Disengaged end of August; strongly recommended; Manchester preferred. F. D., c/o Harrison, Chemist, Blackburn.

EDINBURGH.—Student requires part-time berth; indoors; aged 26. "Spes," Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

ASSISTANT, Dispenser, or Branch Manager; qualified; aged 25 174/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C

EMPLOYMENT wanted for a few nights weekly; qualified. Address, 174/29, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; 23; accurate Dispenser; London and country. Apply, 175/4, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SUNDRIES and Patents.—A youth (19) seeks re-engagement; excellent references. Address, M., 52 Walford Road, Stoke Newington, N.

AS Assistant, or with view to Partnership; 23½; tall; 6 years' good experience; could invest £200. W., Berkeley Villa, Gloucester Street, Coventry.

JUNIOR; aged 19½; 4 years' experience in good house of business; well up in Light Retail and Dispensing. Campion, 21 Mawson Road, Cambridge.

QUALIFIED; aged 27; £70; highest reference; first-class experience. 172/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT, 33; outdoors preferred; varied experience; excellent references; 2½ years present situation. "Stores," Frost, 187 Stafford Street, Walsall.

UNQUALIFIED; 26; competent; temporary or permanent; London and best-class country experience; outdoors preferred. R., Post Office, Wansford.

IMPROVER or Junior; indoors or out; over 4 years' experience; good references; Birmingham preferred. "Cortex," Brewery Lane, Long Sutton, Wisbech.

AS Locum-tenens; high-class experience; terms 42s. per week and railway fare. Sidney Smith, Pharmaceutical Chemist, Market House, Tonbridge.

DISPENSER to Surgeon, or otherwise; experienced; excellent references; married; permanency preferred. "Alpha," Nelson Square, Levens, Milnthorpe.

AS Assistant, in or out doors, in good-class Retail and Dispensing; aged 25; 9 years' experience; excellent references. H. B., 26 New Uttoxeter Road, Derby.

25½; ontdoors; varied experience; steady; trustworthy; north or midlands; evening classes if possible. "Assistant," 19 High Street, Strond, Rochester.

GOOD all-round Assistant; Prescriber, Extractor, Photographer; unqualified; disengaged September 10, 1894. "Sanitas," 48 Raglan Street, Hulme, Manchester.

ADVERTISER, desirous of purchasing, seeks temporary engagement; North London or West of England. "Phenazone," 41 London Street, Reading

EXPERIENCED trusty Assistant desires re-engagement; Prescriber, Extractor, &c.; moderate salary. 173/36, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WHOLESALE; young man, 26; Wets, Drys, or Dispatch Counter; 11 years with good house North of England. Address, "Radix," 7 Railway Terrace, Holgate Hill, York.

JUNIOR, aged 21, height 5 ft. 10 in., seeks situation in first-class Dispensing and Retail business; 4 years' good experience; excellent reference. Cardam, Fern Villa, Epworth.

WHOLESALE, town preferred, as Wet, Dry, or Export Counterman; 6 years last situation; experienced; good references; disengaged. "Alpha," 41 Richmond Terrace, Clapham Road.

ADVERTISER seeks engagement in good house; Wet, Dry, or Country Dispatching; 7 years' experience. 172/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

AS Traveller or Agent; Lancashire, Cheshire district; thorough business capabilities; highest references. Address, 174/13, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, situation to manufacture Pharmaceutical, Granular, and B.P. Preparations, Distilling, &c. "Practical," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C

JUNIOR, in high-class Dispensing business, early in September; aged 21; height 5 ft. 9 in.; satisfactory references. Apply, T. Biscomb, c/o Mr. Coverdale, Pharmaceutical Chemist, York.

ASSISTANT, 22, 4 years' experience, speaking German, French, Italian, and sufficiently English, requires a situation; London or large town preferred. Plinsels, Nyon, near Geneva, Pharmacie Callet.

A QUALIFIED Chemist seeks a position of trust as Senior or Manager; 30 years' good experience; married; good Prescriber and Extractor; highest references. W. B., 26 High Holborn, London.

REPRESENTATIVE with connection, and knowing England, Ireland, and Scotland, is open to re-engagement; good salesman; highest references. 173/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

FOR SALE, 25 Shares in the Chemists' Association, Limited. Apply, 108/5, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO close a Trust.—For sale, 20 (twenty) ordinary £5 shares (fully paid) in Barclay & Sons (Limited), of 95 Farringdon Street, E.C. Apply to Spink & Brown, Solicitors, York.

FOR Sale, immediately, 12 ft. solid mahogany-fronted counter, the back full of drawers, 70s.; 12 ft. range mahogany drawers with shelving and lockers complete, £7 10s.; massive mahogany wall-case, with plate-glass doors, 8 ft. long, £10; 5 ft. mahogany dispensing-screen, 70s.; one ditto, high-class, £5; 6 ft. bent-glass counter-case, £4 10s.; all equal to new; also the complete fittings of high-class shops; experienced fitters sent to all parts of the country; send for testimonials. Edwards & Co., 106 Whitechapel, Liverpool.

CHEMISTS' and Druggists' Price Lists.—Please send for estimate before placing order elsewhere to Messrs. A. T. Roberts, Son & Co., 5 Hackney Road, London, N.E., Price List Printers and Advertisement Contractors; specimens and terms forwarded upon application.

SITUATIONS OPEN—Cont.

WANTED, immediately, an Assistant. Apply, Richards, 49 Wells Street, Oxford Street, W.

OUTDOORS.—Wanted, for few weeks, smart Junior Assistant. Apply, giving usual particulars, to Economic Drug Company, 192 Cowbridge Road, Cardiff.

WANTED, a Junior Assistant for the Retail Counter; outdoors. Apply, giving full particulars, to D. P. Roberts, Drug and Chemical Store, 120 North End, Croydon.

A QUALIFIED and well recommended indoor Assistant required; not under 23 years of age. Call or write to Mr. L. O. Beere, 23 Hampstead Road, near Gower Street Station.

ASSISTANT.—Wanted, a gentleman with Minor qualification, for a West-end establishment; state age and previous engagements. R. S., c/o Orridge & Co., 32 Ludgate Hill.

WANTED, immediately, a qualified and competent Manager for small branch (outdoors). Address, with full particulars to "Clayton," Burgoyne & Co., 16 Coleman Street, E.C.

WANTED, for a General Retail, an active Junior about 20; outdoors. Apply, stating age, height, salary required, with references, to R. Mumford, Chemist, Splotland, Cardiff.

AN energetic, reliable, and thoroughly competent man; capable of management in absence of principal; not under 25. Full particulars, &c., salary, to B., 2 Malvern Road, Kilburn.

QUALIFIED Assistant wanted, with good experience at the Counter; Extractor preferred; good references indispensable; outdoors. J. Beedzler & Co., 20 Norton Folgate, London, E.C.

WANTED, junior Assistant; one accustomed to a Mixed business preferred; short hours; no Sunday duty; enclose photo, give full particulars; outdoors. Townsend, Long Sutton, Lincs.

IMMEDIATELY, an Assistant, about 24, for Light Retail and Dispensing business, W. Write, enclosing full particulars and carte (to be returned), or apply, "Pharmacy," 2 Fernhead Road, W.

IMMEDIATE.—Assistant, for large seaport town; must be smart; several kept; one accustomed to Cash Pharmacy; about 25; outdoors. Apply to W. & C., c/o Hodgkinson, 101 Whitecross Street, London.

BALLARD & CO., Pharmaceutical Chemists, Faringdon, Berks, require a qualified Assistant, about 25, accustomed to Country trade; outdoors. Apply, giving full particulars, and enclose photo.

REQUIRE Junior for 2 or 3 weeks in September; state salary; Kent; close at 1 on Wednesdays; applications not answered at once declined. "Omega," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a gentlemanly Assistant, to take charge of Retail Counter in first-class business. Apply, with full particulars, references, and photograph, stating salary required, to Secretary, Apothecaries' Hall, Mary Street, Dublin.

WANTED, Manager for small, newly-opened branch near Manchester; hours 8.30 to 9.30, Saturdays 11, Sundays 6 to 9 P.M., half-holiday fortnightly. Apply, with full particulars and photo, X., c/o Heath Bros., Manchester.

JUNIOR for good-class Dispensing business; if with knowledge of Photography preferred, but not essential. Apply, stating usual particulars, salary required, and enclosing carte. W. W. Jones & Co., Kingsdown, Bristol.

JUNIOR, accustomed to Agricultural and Family trade, not under 20; able to Dispense accurately. Apply, stating height, references, and salary required (indoors), to H. B., c/o Messrs. Barron, Harveys & Co., Giltspur Street, London.

JUNIOR Assistant wanted immediately, accustomed to an Agricultural trade; indoors. Apply, enclosing photo (to be returned), with usual particulars as to salary, age, experience, &c., B. Humble, 55 Frogmore Street, Abergavenny, Mon.

DISPENSER; qualified; duties, Dispensing only; must be quick, abstemious, and thoroughly trustworthy; salary 2*l.* 2*s.* per week (outdoors). Apply, enclosing height, c.d.v., and reference to last two, Wand, Haymarket, Leicester.

WANTED, an Assistant, for putting up stock for a Select Retail business; outdoors; hours short, no Sunday duty; one seeking a permanency preferred; no qualification required. Apply to R. J. Elliot, Chemist, 69 Church Street, Liverpool.

QUALIFIED Assistant; indoors; age about 24; experienced and reliable Dispenser, accustomed to first-class business; abstainer preferred. State experience, and enclose photo, or apply personally, R. H. Parker, 35 Clifton Road, Maida Vale, W.

TO Dispensers.—Wanted, at once (temporarily), two smart Dispensers (outdoors); no Sunday work; must be qualified, and under 35 years of age. Apply, by letter, stating age, experience, and salary required, to W., 136 Queen Victoria Street, E.C.

JUNIOR, accustomed to an Agricultural and Family trade, and able to Extract Teeth; indoors only. Apply, stating age, height, and salary required, to H. O. Webb, Pharmaceutical Chemist, Buckingham. Please enclose photograph, which shall be returned.

YOUNG Clerk wanted, well up in the ordinary routine of a Wholesale Druggist's business; good writing and references indispensable. State age, height, salary required, and enclose carte, to "Secretary," Hicks & Co. (Limited), 70 Queen Street, Cardiff.

WANTED, immediately, a qualified Assistant (outdoors); one well up in Dispensing, Prescribing, and Extracting; hours 8.30 to 9.30; Friday to 10 P.M., Saturday to 11 P.M., Sunday 6 to 9 P.M. Apply, stating age and salary, to Alfred Mays, Market Place, South Shields.

ASSISTANT wanted, for good-class Country business; in or out doors; must be a gentlemanly, pushing and obliging Counterman; hours short. Applicants, please state names of last two employers, age, salary, when disengaged, enclose carte and all particulars to C. B. Shuker, Launceston.

WANTED, a good Junior or Second Assistant, for good Mixed Family and Agricultural trade; outdoors; similar experience desirable (Eastern County); good references essential. State salary required, and full particulars, to "Medicus," c/o Messrs. Horner & Sons, Mitre Square, Aldgate, E.C.

SUSSEX County Hospital, Brighton.—An Assistant Dispenser is required at the above institution; salary £50 per annum, with dinner provided daily; hours 10 to 4; applicants must be registered under the Pharmacy Act, 1868. Send references and full particulars to the Dispenser, at the Hospital.

QUALIFIED Chemist wanted to manage Drug Department; must be active, obliging, and of good address, and thoroughly trustworthy; state salary required and references to previous employers; progressive salary to a really good man. Apply, Hull Drug Company (Limited), 34 Whitefriargate, Hull.

WANTED, good Assistant, qualified, well up in Dispensing, Prescribing, Extracting, for country town, agricultural; two assistants kept; one required who has had recent country experience. State particulars, age, and reference to last, "Cambridge," Hodgkinsons & Co., 101 Whitecross Street, London.

WANTED, a steady and reliable Assistant, about 22 (qualified), for a good-class Dispensing and Retail business; well recommended; good Salesman; half-day off each week. Apply, with full particulars, age, height, salary, reference, photo (to be returned), G. D. Cooper, 133 High Road, Balham, London, S.W.

WANTED immediately, an active, qualified Assistant, aged about 28, single, to manage small branch; permanency to suitable man; salary 40/- weekly, with furnished bed and sitting room; half-holiday weekly. Address, with photo and usual particulars, to Charlesworth, Chemist, 780 Fulham Road, S.W.

WANTED for Havana (Cuba), young gentleman with thorough knowledge of Drugs and Chemicals, able to correspond English and French and good bookkeeper. Apply, by letter, giving full particulars as to age, experience, and salary required, to 568, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CHEMISTS' TRANSFERS.—Wanted for important London Chemists' Transfer Agency, a qualified man, competent to take entire management; must be experienced Valuer, well acquainted with the work; the proper man can make a good income. Send full particulars to "Transfers," c/o Crossley, Moir & Co., 57A Coleman Street, E.C.

CLAPHAM General and Provident Dispensary.—Wanted, a resident Dispenser, qualified by examination; married man, without family, preferred; inclusive salary £100 a year, with unfurnished rooms, firing, and gas. Apply by letter, stating age and qualifications, and enclosing copies of 3 recent testimonials, to Hon. Sec., 42 Manor Street, Clapham, S.W., by September 5, 1894.

CHEMIST wanted in the Laboratory of a Manufacturing Chemist; must be able to analyse quickly and accurately all drugs and chemicals, as well as superintend the manufacture of the finer and more important Photographic and Pharmaceutical Chemicals. Apply, by letter, stating age, qualifications, previous employment, and salary required, to Q. S., c/o Wm. Dawson & Sons, 161 Cannon Street, E.C.

WEST LONDON HOSPITAL, Hammersmith Road, W.—Assistant Dispenser, with Minor qualification, wanted; aged not more than 28 years; salary £80 per annum; hours 9 to 6, and till completion. Applications, with copies of three recent testimonials, to reach me by Saturday, 25th instant. Candidates must attend the House Committee at 10.30 A.M. on Monday, 27th instant.

R. J. GILBERT,
Secretary-Superintendent.

LEWISHAM UNION.
APPOINTMENT OF INFIRMARY DISPENSER.

THE Guardians of the Lewisham Union invite applications for the appointment of Dispenser at their new Infirmary, High Street, Lewisham, S.E. Salary £80 per annum, and dinner and tea daily. Candidates must be not less than 25, nor more than 40 years of age. The person appointed must be a licentiate of the Society of Apothecaries, London, or hold a certificate of that Society as to his qualification to act as an Assistant in compounding and dispensing medicines, or must be a compounder of medicines duly qualified in accordance with the regulations for the Army Medical Staff Corps, or be duly registered under the Pharmacy Act, 1868, or some other lawful authority in that behalf. He will also be required to keep the Medical Register and Case Book. The appointment will be made subject to the approval of the Local Government Board, and subject to the Regulations contained in the Infirmary Order.

Applicants are requested to communicate, or if possible to have an interview, with the Medical Superintendent, at the Infirmary, between the hours of 10 A.M. and 1 P.M.

Forms, upon which applications must be made, can at the same time be procured of the Medical Superintendent, and all applications must be delivered to him not later than 10 A.M. on Friday, the 31st August. Selected candidates will have notice of the day on which to attend before the Guardians.

Canvassing the Guardians is strictly prohibited.

By order,
H. C. MOTT, Clerk to the Guardians.

Union Offices, 286 High Street, Lewisham, S.E.,
August 9, 1894.

SITUATIONS WANTED.

1*s.* *for* 12 *words;* 6*d.* *for every* 6 *words beyond.*

LOCUM-TENENS; disengaged. "Chemist," 32 Laurel Grove, Penge.

AS Clerk or Assistant; live out. "Scribe," c/o Oldham, Chemist, Wisbech.

JUNIOR, by August 28; aged 23. E. Cocks, 30 Richmond Place, Brighton.

OUTDOOR Assistant; aged 35; unqualified. "Alph.," 3 Villa Road, Brixton, S.W.

JUNIOR: Dispensing and Retail; disengaged. Houseman, 23 Charles Street, Louth, Lincs.

BUSINESSES FOR DISPOSAL—Cont

PRESTON.—To be sold, as a going concern, the Business carried on at 157 Friargate, Preston; best position in town; well stocked and fitted; valuable Proprietaries and Doctors' trade attached; price £350 or offers; large premises could be let off. Apply, Waterworth Bros., Preston.

FOR immediate disposal, an old-established Drug and Grocery Business in the country, Lincolnshire; been in the same hands 54 years; reason for sale, death of the proprietor; no goodwill; stock and fixtures about £100; rent £16. Apply to Weightman Bemrose, Chemist, Dawley, Salop.

WALES.—For Sale, old-established Mixed Retail Business; well stocked; returns £450; will be sold at a sacrifice; cause of leaving, ill-health; only wants seeing: rent low. Apply, "Fides," c/o John Thompson, Wholesale Druggist, Hanover Street, Liverpool; price £120; part can remain.

CHEMIST'S Business for sale; best part of a seaside town 50 minutes by rail from London; newly-fitted shop; stock all new; increasing trade; capital opening for a young man; satisfactory reasons for selling; price £600. 171/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR early disposal (S.E.), a good Cash Dispensing, Prescribing, and General Retail Business; handsomely-fitted, well-stocked, double-fronted shop, situated in good main road, 2 minutes from station; trams pass the door; £400; a bargain. Address, L., c/o Street Brothers, 5 Serle Street, W.C.

SEASIDE.—Not a season trade; good-class Retail, Dispensing, and Prescribing Business; returns over £20 weekly all the year round; net profit £7 weekly; good position; price £700, about the value of stock and fixtures. "Seaside," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENUINE Light Retail, Dispensing and Prescribing Business, near London; net profits £700; lease; low rent; £1,500 required, part of which could remain on security at 5 per cent. interest; no agents; references required. Letters only to "Radix," Ravenshurst, Tweedy Road, Bromley, Kent.

LONDON, S.E.—Dispensing and Retail Business for immediate disposal; very nicely situated; shop well fitted; returns £400, increasing; all profitable business; vendor's sudden breakdown in health necessitates sale; price to be equitably arranged. "Statim," c/o Orridge & Co., 32 Ludgate Hill.

CHESHIRE.—Old-established Chemist's Business; handsomely-fitted shop; plate-glass counter fronts; bent-glass counter cases; returns last year £617; capital position; main thoroughfare; price about £350; good house; rent £35. Address, 165/6, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LINCOLNSHIRE.—Old-established Agricultural Business; returns £560; good house and premises, garden, and greenhouse; price about £150, or by valuation; would accept payment by arrangement; good opportunity for Veterinary and Druggist. 174/37, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£500.—Warwickshire; no opposition for 10 miles; Light Retail, Dispensing, and Prescribing Business; returns £730; rent £24; 9-roomed house, small garden; best position; has been under management 7 years; can be increased. "Warwick," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

I HAVE a bonâ-fide progressive Cash Family Business for you, on very easy terms, with Gilbey's Wine Agency and sale of Spirits, available on October 10; reasons for disposal are purely domestic; rent and rates together £31; excellent house, small garden; supreme winter climate. Write me, Archer, St. Marychurch, Devon.

£125.—S.W.—Death vacancy; Retail and Prescribing Business; in same hands many years; returns £6 to £7 week; full prices; patents, 1s.; capable of doing double; must be sold; only £125 required; good house, in good repair; low rent. "Exors.," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENTLEMAN, having two shops too far from each other to work to advantage, will sell either; handsomely fitted, well stocked; doing profitable trades, one returning £800, the other £300, under principal; formerly done over £1,000; good man can do it again. Address, "Chemist," c/o Balchin, 59 Ashmore Road, Paddington, London, W.

LIVERPOOL.—For Sale, in consequence of death of proprietor, Retail Chemist's Family Prescribing and Dispensing Business; established 30 years; large corner shop in main thoroughfare; good opportunity for energetic young man; to close estate executrix will accept low price. Address, W., c/o H. Jackson & Sons, 2 Brooks Alley, Liverpool.

TO be Sold, through death of the proprietor, the old-established Business of Chemist and Druggist, carried on for so many years in Gold Street, Northampton; the house and shop are very convenient, having recently been erected; the shop fittings and fixtures are all new, and supplied by Messrs. Maw, Son & Thompson, London. Apply, Negus, 56 Gold Street, Northampton.

£550 will purchase stock, fixtures, utensils, and possession of old-established Chemist and Druggist's and Drysaltery Business in Birmingham; a leading thoroughfare; only changed hands once in 57 years; large fortune made by predecessor; present proprietor retiring; energetic man sure to do well, as the situation and premises are suitable for a large trade; profit about £300 per annum; might easily be doubled. As evidence of *bona fides*, applicants are referred to F. H. Alcock, Esq., Analytical Chemist, Temple Chambers, Birmingham.

GENUINE old established Optician's West-end Business (Retail) for disposal; exceedingly lucrative; fine premises; low rental on lease, no taxes; large connection; would suit young gentleman desiring to leave the Drug-trade, and seeking a high-class, semi-professional business, closely allied in nature to that of a Chemist's, with not one-tenth of its responsibilities; splendid opportunity also to gain a thorough knowledge of the Optical trade, testing of the sight, with first-class man, who will remain; hours of business 9 A.M. to 7 P.M., close 4 P.M. Saturdays; price about £350. Address, "Lucrative," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON (near City).—An old-established Retail and Dispensing Business, with numerous Proprietary Articles and a first-class Agency; returns about £800; price £550; splendid position in the thick of the trade; window alone will pay rent. Wm. Ferguson, Valuer, 32 Claremont Square, London, N.

NEAR Nottingham.—For immediate disposal, a small village Business, in a growing neighbourhood; exceptional opening for an energetic man; a good opening for Dentistry; rent £20; incoming about £100. 175/30, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WANTED, a genuine good-class Business, in London, or within 100 miles, returning about £1,000 to £1,200; cash at command. Address, in strictest confidence, with full particulars, T. W. C., Richmond Cottage, Summerhill Road, West Green, Middlesex.

PARTNERSHIPS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

WHOLESALE, or small Wholesale with Retail.—Partnership wanted, in genuine Business, which will bear the fullest investigation; purchase money £800 to £1,000; no agents. Fullest particulars, in confidence, to "Chemist," 41 Romney Terrace, Greenwich, S.E.

PARTNER required, for an old-established Business (2 shops) in a leading town on South Coast; small capital only required, about £100; purchase of one Business on easy terms if desired. Particulars on application to 171/36, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR SALE.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

PATENT Medicine for Sale; Citrate Plant also.—£50 only will purchase the Recipe of a valuable Patent Medicine; a sure fortune if judiciously advertised. Apply to Proprietor and Manufacturer, W. H. Atkinson, Manufacturing Chemist, 156 Camberwell Road, London, S.E. (who is retiring from business).

SALES BY AUCTION.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

TO CHEMISTS AND DRUGGISTS.

TO be Sold, as a going concern, the Lease (of which 16 years are unexpired), Goodwill, Fixtures, Stock-in-Trade, and Book Debts of the Business carried on by Mr. Walter Wright, under the style of Baker & Wright, at 27 High Street, Chelmsford; average turnover for the last 5 years £3,500; rent £113 per annum; offers to be made as follows:—

1. Lease, Goodwill, Fixtures, and Recipes Books.
2. Stock-in-Trade. 3. Book Debts and Books.

All further particulars may be had of Messrs. Camm, Corbidge & Co., Chartered Accountants, 19A Coleman Street, London, E.C., to whom offers should be sent on or before the 22nd instant.

APPRENTICESHIPS.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

CHEMIST'S Apprentice; outdoors; good-class business, centrally situated in fashionable watering-place; terms 3 years, premium £25. Beck, Chemist, Hastings.

DENTAL Pupil.—Dental Surgeon, with select practice in Inland health-resort, has vacancy for well-educated Youth; premium required; thorough instruction; home comforts; Christian influence. Address, L. D. S., c/o Mr. Lawrence, 20 High Street, Rhyl, N. Wales.

SITUATIONS OPEN.

3s. 6d. for 50 words; 6d. for every 10 words beyond.

JUNIOR, about 20; outdoors. Full particulars to Walker, Hereford.

END of month, outdoors, smart, qualified Assistant, about 25, for General Country business. Adams, Mansfield.

ASSISTANT wanted, at once; outdoors; age about 20 to 30 years; hours light. Apply, B., 509 New Cross Road, S.E.

JUNIOR (outdoors) in a Mixed Country business. Apply, with usual particulars, to Spong & Son, Chemists, Biggleswade, Beds.

ASSISTANT, for September 3; 22 or 23; Country Retail and Dispensing. State full particulars to John Gilling, Saffron Walden.

JUNIOR Assistant, for September 3; state age, height, and salary required, enclosing carte to Lewis Thompson, 181 Snargate St., Dover.

WANTED, at once, Junior; qualified; outdoors; able to Extract. Apply, giving full particulars, T. M. Cook, Chemist, Hindley, near Wigan.

INVOICE Clerk, (Junior) wanted. State age, experience, and salary required, to 108/30, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, a qualified Assistant; one able to Extract Teeth. Also a Junior; outdoors. Apply, with usual particulars, to Gostling & Co., Diss, Norfolk.

WANTED, an Assistant (single) for Retail and Prescribing business; state age, references, and salary required. James Stevens, Chemist, Strood, near Rochester

VOLUME 45.

COMMENCE your subscription to "THE CHEMIST AND DRUGGIST" with the issue for JULY 7, 1894, which begins a New Volume. For **TEN SHILLINGS** you will receive, post-free, fifty-two weekly numbers of the paper (containing about 1,800 pages of literary matter, all of special interest to Pharmacists), and THE CHEMISTS' AND DRUGGISTS' DIARY for 1895, when published. Note the contents of the issues of the current volume already published, as given below:—

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AUGUST 18.

The issue of this week contains the United States Tariff, Lord Rayleigh's New Element, British Association Addresses, Postcard Competition, Corner for Students, and all the Trade News of the week.

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